

1933.

Trip to Minnesota
St. Croix River
Duluth.

Wisconsin (W.)

Trip South - Sep. - Oct.

Missouri, Farmington

Cape Girardeau

Osarks - Big Spring

Arkansas - To Helena.

Mississippi - Roseacres.

Vicksburg

Natchez

Louisiana - Tunica - Baton Rouge.

New Orleans

Mississippi - Gulfport - Biloxi.

Alabama - Mobile - Bay Minette

Florida - Bluff Springs

Alabama - Clairborne

Montgomery - Wetumpka

Selma - Cahawba River

Wilsonville (Cosa River)

Dacula, Huntsville, Florence

Riverton (Cams)

Tennessee - Dyer ville.

Kentucky - Hickman - Paducah.

Missouri - St. Louis.

N. of Mitchellville, Ia.

Please return to
B. Shimer, 524 Brown St.
Iowa City, Iowa + receive
Decatur 11, 957 Award

Huntsville 8,015

Hammond 12,529

Jacksonville 3,855

at 6,632

Laurens 5,445

Laurens 2,700

Dyersburg 6,444

Laurens

Laurens 24,735

Ballott Rk

House up bluff

Church on Marshall

Gray does at base of loess

14.10. to old brickyard

Laurens

Magdalen (parallel
w. of Gray)

Pipe is just E.
of Magdalen

Expenses

Aug 14 - Gas & oil, Iowa City	1.87
Aug 15 - Gas & oil, gas & oil 1.55	1.65
Madison, Iowa - Northfield	.95
N.B. of St. Paul #45 - gas	1.30
Stillwater - pole, boys	.30
Taylor's Falls - sodas	.15
Aug 16 - Hotel 1.50, breakfast 40	1.90
Centerville, Minn. - Lunch	.30
Poplar Creek - min	.15
Gas - Pine City	1.89
Supper - Agate Hotel, Pine City	1.00
Aug 17 - Hotel 1.50, breakfast 60	2.10
Two Harbor, min. - gas	1.17
Roll - Supper	.20
Supper	.50
Aug 18 - Iron River - Room, breakfast 35	1.35
Gas - Iron River Lake 95, boat 25	1.20
Shell Lake	1.70
Supper - Lakeview Hotel	1.20
Aug 19 - Room 1.50, breakfast 50	2.00
Rice Lake - Lunch	.70
Supper - Chippewa Falls	.50
Trout - Whitehall	.27
Aug 20 - Whitehall, Room	1.00
Gas & oil	1.51
Lacrosse - paper 10, breakfast 30	.40
Roll - Lumber 60, gas & oil 1.13	1.73
Monrovia - dinner	1.00
Milton 1B + 18	1.8

1-37.6 4-154.8
2-82.2 5-192.4 + 6 min
3-115.8

13919

Junes

Aug. 15, 1933. Trip north.

Left at 5:43 AM. 13919-

Home	0	Dodge Co (center)	205.5
North Liberty	7.5	Stark Co "	206.1 1/2
Curtis bridge	12.4	Blooming Prairie	206.9
Shenandoah River	15.6 1/2	(1.8 mi to center)	
Cedar Rapids #30	25.1	Pringle	213.1
#218 + #30	43.3 +	Pratt	212.0
Shellsburg Road #212	53.2	Owatscho #65	224.7 1/2
Vinton	57.2	(73 mi to 24.1)	
Traver Road #8	66.6	Clinton Falls	229.2
La Porte Co	75.7 1/2	Medford	231.6
Washington		Rice Co	233.1 1/2
Waterloo (Hotel)	90.2	Fairbault - min	249.0
Cedar Falls #20	97.2	Dundas	251.7
Jameville (bridge)	104.7	Northfield	255
Waverly #10	110.6 1/2	Farmington	268.2
Plainfield - RR	121.1 1/4	Rossmore	275.5
Washington	128.8 1/2	Westcott	
Charles City #18	139.4	St. Paul - RR bridge	291.3
No. 18 - (114 1/2)	144.4 1/2	Loc 61 - 45	293
Floyd - Ferry	145.1	Stillwater	309.1
Floyd - Ferry	146.0	Marion	320.8
Shenandoah River 255 - 151.8			
#9 + #218	155.7 1/2		
Orange	157.5 1/2		
St. Ansgar Turn	165.8		
St. Ansgar	171.1		
Stark Co	180.2		
Lytle RR. RR	180.4		
Austin - RR	191.2		
"	191.6		
"	192.1 1/2		

Great green fern
 (not flowering)
 Euphorbia corollata fine fr
 Leptochloa pinnatifida (grass) rather dist
 Carex chrysosperma fine
 Helianthus scaberrimus fr fine

Small group of Quercus
 N. Florida in an open field
 prairie (many diggers)

Very dry in the house
 So. Minn. Planting trees
 do not look well

Country from Austin to
 Watrous very flat prairie,
 the trees planted look scrubby
 & are not doing well
 Wild patches in pastures of
 Solidago nemoralis.

Rather flat prairie (mostly not wet)
 At 205 a strip of green
 prairie, but all ^{holo} ~~stunted~~ ^{blooming} prairie
 S. of Blooming Prairie
 Liatris scariosa fl.
 Solidago nemoralis fl.
 " nemoralis fl.
 Artemisia ludoviciana - bl.
 Helianthus major fr.
 Andropogon furcata
 Composita (small) fl.
 Petalostemum purpureum fr.
 Amorphum canescens fl.
 Lepachys pinnatifida fl.
 Galium aparine fr.
 Salix humilis fl.
 Sorghastrum nutans fl.
 Aster laevis - bl.
 Zizia aurea fr.
 Desmodium canadense fr.
 Solidago nemoralis fr.
 Phlox pilosa fl.
 Vernonia villosa fl.
 Eryngium yuccifolium fr.
 Helianthus autumnalis fl.
 Oxyechia sp. fr.
 Andropogon scoparius fl.
 Salix humilis fl.
 Liatris pycnostachya fr.
 Aster ageratoides fr.
 T. scabra (white) fl.
 Senecio cicutifolius fl.
 Cirsium discolor fl.
 Achillea millefolium fl.
 Helianthus scaberrimus fl.
 Veronica virginica fl.
 Anemone canadensis fl.
 Geranium tempestivum fl.
 Gambusia affinis fl.
 Helianthus scaberrimus fr.
 Quercus depressa fl.
 Solidago nemoralis fl.
 Agrilus alba fl.
 Callispermum venustum fl.
 Corylus americana fl.
 Coreopsis palmata fr.
 Helianthus scaberrimus fl.
 Aster multiflorus fl.
 Sparganium angustifolium fr.
 Composita umbellata fl.
 Salix humilis fr.
 Stipa sp. fl.
 Solidago nemoralis fl.
 Cirsium discolor fl.
 Vernonia villosa fl.
 Aster novae-angliae fl.
 Zizia aurea fr.
 Rosa pratincola fl.
 Solidago nemoralis fr.
 Helianthus scaberrimus fl.
 Monarda mollis fl.

Scrub only all along the
RR.

Beyond Bigby, a little broken
with low knobs, & valleys &
some grass (but mostly
deciduous trees) - some oak forests

Beyond Pratt are patches

of *Parthenocoryphus*

Less rolling beyond

Lawton.

Rougher & more wooded

at Clinton Falls. More
rich woods. Knobs with trees
all along.

Sections of knobs show
gravel.

Fairbank is on rougher
area.

The knobs at & beyond Fairbank
are drift clay with much coarse
gravel & small boulders.

At 245.1, beyond Fairbank
in Cannon River I collected
Urosalpinx & *B.* &
Mosq. & plants.

Followed #218 to Owatonna &
#65 to St. Paul.

More knobs to beyond
Dunlap.

Beyond 222. again less
rolling, etc.
At 214. of Rosemount rougher
again.

To St. Paul - all have woods
some wh. Birch & nests
of *Populus tremuloides*.

In the St. Croix River at
Stillwater, Minn. I collected Uria.

U. annularis
U. ulicatus
U. trigonus
U. luteolus
U. ligatus
U. parvus
U. ventriosus
U. laevis?
U. alatus

Margarita complanata
Anodonta edentata
" *grandis*

Also great jar of *Campylodonta*
in shallow water along edge.

Also a few
Ameglin — (on shells)
Planorbis —

We drove to Taylor's Falls along
the east side of the St. Croix
River.

Along St. Croix River - Minn.

Lilia am.
Ostrya virgin.
Ulm am.
Gentiana am.
Rhus typhina
Acer rubrum
" *rubrum*

Symphoricarpos
Rosa 5-fofolia
Vitis vulpina
Populus deltoides

Acer glabrum (slope)

Wh. Birch (on ledge)

Populus tremula

at 326.3 - first River
The scenery is quite attractive
all along the St. Croix River
but most so in the falls of
the St. Croix, included in the
Interstate Park at Taylor's
Falls, Minn., & St. Croix Falls, Wis.
We put up at the Dalles Hotel

Aug. 16, 1933. Wednesday

We drove over to the Wisconsin side.

Here is an upper part, with another

Hard wood forest. Pine grows right

among his class of trees. Very dry
shrub mostly & a common 1.

I noted

- * *Carya cordifolia*
 * *Quercus muhlenbergii*
 * *Stem Tax*
 * *Fraxinus pennsylvanica*
 * *Acer negundo*
 * *Asimina quadrifida*
 * *Acer spicatum* (see list)
 * *Hepatica blanda*
 * *Smilax racemosa* (fr.)
 * *Rhus typhina*
 * *Vitis vulpina*
 * *Brachyglottis*
 * *Amelanchier canadensis* fr.
 * *Arbutus canadensis* fr.
 * *Urtica dioica*
 * *Salix nigra* fl.
 * *Salix tripartita* fl.
 * *Agrimonia eupatoria* fr.
 * *Helianthus "diversus"*
 * *Zanthoxylum arm.* 4
 * *Juglans cinerea*
 * *Ulmus fulva*
 * *Rubus idaeus* var.
 * *Populus grandis* fr.
 * *Aster Drummondii* fr.
 * *Chenopodium*
 * *Asplenium platyneuron* fr.
 * *Asplenium platyneuron* fr.

In an upflow small bay (dry)

Scirpus cylindricus

Myrica alpestris

Cary (large elongate fr.)

2. 4 (more slender)

Heinrich Enders

Argemone perfoliata DC

11 - *Parthenium* - JH

Impatiens lupan. fl.

Scaphisoma chinensis

Fine large hand, gray

Lobelia sp.

Prunella vulgaris

at Sale of the Sales. I collect a

Open *Thymus humil*
Specimen return 1-

Eupatorium argentum
Ribes cynobact
Festuca nutans ab
Betula lutea
common in Canada
Juniper common
Fraxin nigra
Polygonum virgin.

Hyssopus reticulatus
Rudbeckia hirta
Cormus allanensis
Anemone viridis
Asplenium platyneuron
Brenanthera alba

Upland woods at 348, 2 1/2 -

Ulex americanus com
Quercus alba
Ulmus fulva sw
Acer saccharinum com
Fraxinus nigra few
 " *juncea* v. *lanceolata* few
Acer rubrum near edge of swamp.

Another day Tamarack swamp
Osmoda cinnamomea stops

In 1st Tamarack swamp I
 found a large *Polytrichum* on the
 ground near rock lichen
 from Rock Maple & from
 dense edge of Tamarack.
 Fruits of Tamarack -

Shrub of *Populus tremuloides*
 common in low places.

at 367, 1 1/2 - Tamarack Swamp
 at No. 1. Swamp mostly Tamarack

Shaper -	346.2
Tamarack swamp	347.7
2nd upland woods.	348.2
Center City	349.7
Lindstrom	351.4
	353.5
Chicago	354.4
Return	355.5
Wyoming - #61	362.0
" - town	362.2
Hacy -	366.4
North Branch -	374.2
Harris -	379.3
(E) Pine, Branch	383.7
" return	387.9
Pine City -	394.8
Rock Creek -	399.9
Swamp off E.	400.1
Bridge - M. City	409.3 1/2
Back to #61 -	418.3 1/2
Pine City	423.6

Tamarack Swamp ^{mi. E. of}
~~Shaver, Wis.~~

Salix (small glaucous)
Spiraea tomentosa com. fl. fr.
Verbena hastata fl. com
Spiraea salicifolia fl. fr. to see
Eupatorium perfoliatum fl. com
Aspidium thelypteris fr.
Heath (one spec.)

Salix discolor
 Tamarack - dominant
Lycopodium complanatum fl.
Glycyrrhiza *gracilis* fl.
Betula pumila fr.
Alnus incana fr. com
Acer - (many) spec.
Polygonum acer fl. com
Scirpus cyperinus fr. com
Betula alba fr. fr. spec.
Solidago nemoralis fl. spec.
Ephedra racemosa fl. fr. spec.
Polygonum reptans fl. fr. spec.
Alisma plantaginifolia fr. com
Aspidium speciosum fr.
Thymus (one spec.)
Scutellaria latifolia fl. fr. spec.

The white birds are all smaller
 & on hummocks with Tamaracks
 usually one Tamarack to hummock
 sometimes 3 or 4 hummocks are
 confluent in a line.

In upland just N. of swamp

Quercus elliptica
" macrocarpa
Corylus rostrata
Acer saccharum
Acer alba
Juniperus communis
Alnus americana
Tilia americana
Fraxinus nigra
Ulmus fulva
Betula p. gracilis
Alnus incana
Rubus idaeus var.
Potentilla canadensis
Ribes
Sambucus racemosa

Quite a number of Jack Pine
E. of Harbin

Turner & from Rock Creek

Along road in lower
glades Populus tremuloides
is very abundant - thickets
& groves

Also thickets of small
White Birch - dense

At 408.4 I found one
Red Pine (see collection) It was
among a large number of
Jack Pine here common
The back is rocky & covered
with juniper

Saw three others & got a lot of
crops.

Turner says there are not

100 Norway Pines here in 2 sections, &
only a few White Pine & Lambs, but
Jack Pine is very common.

We drove to the St. George
River, here sluggish & shallow,
I dredged a lot of Musculina
Pisidium, Lanice & Sphaerium,
and also some Sphaerium,
also picked up a number
of Urin shells on shore.

M. plicatus was distinctly
stunted, & most of the Sten-
opneustes m.

It rained a part of the
time.

I also dredged a small
Cambriloma with eroded
spines. Also some younger
specimens of the same.

We drive back to #61
and then on to Pine City,
where we put up at the
Ayer Hotel

This in the "good old days"
was about the southern limit
of the pine forests.

I found the next day that
everywhere there were old burned
stumps of pine, & now thickets
of *Populus tremuloides*, *Betula*
alba v. (These often mixed on
higher ground), appear instead.

The soil throughout is very
thin & poor, sections along road
showing drift (mostly red) &
practically no black soil

610.1 - Crossed by village

583.6 - Newaji Riv.
about 699 - Lake
594.1 Anniston Falls
597.3 Middle River
Aug. 17, 1933 - Thursday

Pine City		Lakeview	
Silver Lake	423.6	Lakewood River	522.9
Brown	429.6	French River	527.2
Mission Creek		Sucker River	530.0
Hinkley, RR.	436.6	Little Sucker R.	530.7
Friesland	441.5	Knife River	537.9
Isosabin	446.4	Larson	
Return	447.3	Two Harbors	541.4
Sandstone	448.3	Turner Lake	541.6
Rutledge	456.8	Two Harbors	541.9
Willow River	461.1	Knife River	549.5
Sturgeon Lake RR	465.3 1/2	Little Sucker Riv.	552.5 1/2
Moore Lake	470.6	Sucker River	553.3
"	471.2 1/2	French River	556.1
"	471.3	Lakewood River	
Barren	475.9	Luster River	563.1
Highway	482.2	#61 + #2	568.5 1/2
Adrian	486.1	#2 loc #61	573.3 1/2
Other Creek		#2 + #53	577.4 1/2
Carlton	493.9	S. Return to #1	579.4
"	494.0	Dark Lake	
Scanlon	496.7 1/2	Range	593.1 1/2
Eaton	499.7	#53	
Harvey		Wentworth	
Duluth	509.5	Poplar	598.6
#2	510.1	Maple	602.5 1/2
#2 + #61 (loc)	514.8	Blueberry	
Peter River	520.3	Bruce	
		Iron River	

Dredged a few *Amurica*, *Sphaeria*,
Massulina & *Campeloma* in Snake
 River, Pine City, Minn. A curious
 stream, - series of pools - full of
Valisneria, *Elodea*, *Myriophyllum*, etc.
 A beautiful cool bay.

Scattered thickets of
Populus tremuloides &
 larger groves of white
 birch (rather small).

In a mixture of White Birch &
 Quaking Asp. on somewhat higher
 ground. N. of Mearns. I found:

<i>Rhus typhina</i>	<i>Pteris aquilina</i> ^{very com.}
<i>Solidago canad.</i>	<i>Achyrocline satureioides</i>
<i>Urtica dioica</i> !	<i>Aster multiflorus</i> (dry)
	<i>Solidago canad.</i> (it)
	<i>Rubus allegheniensis</i>
	<i>Satureia procumbens</i> (it)
	<i>Sium</i> ^{small}
	<i>Epipactis atrorubens</i>
	<i>Compositae</i> ^{various}

There are numerous large stumps
 evidently Pine & this is evidently
 cut-over.

Hinkley had a great fire in
 1894 - (400 years lost) - Town wiped
 out - Stumps were all burned.

Beyond Hinkley the zone of
 birch & quaking asp are dotted
 with burned pine stumps -
 This is especially so on the slight
 swells -

Great patches of *Solidago canad.*
 on lower places.

Corn low, poor. Houses mostly
 small & poor.

Sept 1, 1894 - Sandstone and
 destroyed.

Beyond Sandstone a few scattered
 pines remain - seen mostly Red Pine

Passed small groves of Jack Pine
slightly more rolling beyond
Sawdome

In Kettle River at 457.3 $\frac{1}{2}$
I drove some shells
picked up since, & found
small bur-reed.

Saw small groves of
Jack Pine & Red Pine, very
few White Pine.

Beyond Willow River 2000 ft
thickets mostly Jack Pine. Saw
Red Pine

Beyond Maimon quite
a grove of Balsam Fir.
These ^{were seen} scattered.

In a dry bog at 490.2 $\frac{1}{2}$ I found
the following:

Tamarack
Aster
Chelone glabra fl
Aster umbellatus fl
Sedum sp.
Sedum sp.
Solidago sp.
Aspidistra sp.
Maianthemum canadense
Cornus alternifolia
Bromus pinnatifidus
Sphenopeltis ? - leafy
Aspidistra sp.

Trollius
Rubus idaeus var.
Onoclea sensibilis
Fragaria virginiana
Eupatorium purpureum fl
Solidago - fl. white
Galium
Impatiens sp. fl
Rubus ? - fl. white
Lycopodium complanatum fl
Saxifraga
Aster - fl
Asplenium platyneuron fl
Cestrum palustre
Hemlock

The tamarack swamps (as far
as we saw) all appear dry,
though it is evident that
they have plenty of moisture
below, for in low "holes" (small
& limited) water appears.

The trees etc. were all on
hummocks.

Lower Duluth much
rougher, more rock - ledge
& more brown.

Went a little along H.L.
made a lot of sections
Belmont & a few other
Pines

Beyond Snake River a
devastation at a - by fire
Dead trunks of small whitebark
etc. & low scrubby growth.

Turned back from Two
Harbors.

Snake river is rocky & swift

& there are no swamps.

Looks stony again in the
countryside.

Went out again at 554. 5,
on return.

was told at Two Harbors that all the
nearest part of the Superior National Forest
was cut over.

noted:

Pinus resinosa
Hemlock
Actinidia sp.
Rubus idaeus var. fr.
Jack Pine
Rubus (herb.) *separ*
aralia nudicaulis

acer spicatum sp.
aspidium sp.
aster - *laevis*
blueberry (in fruit)
Polygonum viviparum?
alnus incana
Betula & *populus*

It rained a part of the afternoon
Drove back through Duluth to
Superior & had supper. Found
#53 with a bad detour and
decided to drive to Iron River,
where we put up at a
private house.

The evening (& night) were
very cool.

Duluth has a crescent of high hill
around its edge - lies in lower
basin along shore. Much rocky
granite rock. All cut-over
country.
Superior, Minn., looks run down at
the hill.

shell Rock 724.9

at 621.1

621.1 1/2

The edges of this swamp
show old burned stumps

Another swamp 3 mi. S. of Iron River

shows White Pine (low) at edge

betula alba, *Picea nigra* common

Needles cover dense forest - on ground

& no undergrowth

Drove to Carigan place on Iron Lake

Five years ago they made artificial

trout ponds & they are now full of

vegetation:

Elodea *Scirpus*, etc.

Myriophyllum

Potamogeton

None was planted by the Carigans

Five springs. Dredge a few mollusks.

The lake has a soft mud bottom

& I found no living mollusks

but only shells of *Planorbis* *planorbis*
planorbis

(This is still fine woods)

At 628.3 - quite a forest

Jack Pine (mostly)

Abies *mill.*

Heath with *Larix*

Corylus

also some *Red Pine* & *White Pine*

At 636.6 we ran into more
cut-over stuff, with much small

young growth - *White Pine* & *Red*
Pine

Then a stream fork

Again after 6 to 3,

20 turn 2. Then all young growth
cut-over land.

At 636.8 another burn over
area. After that thin & no
good

Drummond Lake

At 639.7 a small lake with fine
sandy beach. Saw marks of deer
hoof. Collected *Lemna* in lot
No shells!

Went down an ~~river~~ with
much Pop. Tremuloides

Drummond is N. of junction of roads.
We stopped at Hayward for dinner,
and drove around Grindstone Lake.
We stopped at creek which discharges
water from Grindstone to Court Ouelles
Lake. It is filled with vegetation -

Najas	Potamogeton 2 or 3 sp
Ceratophyllum	"Ludwigia"
Pickering-weed	Filipha,
Elodea etc	

I dried Campylone, Amphuren
+ Anodonta & Bulimulus

We then drove to S. side of W. end
of Lac Court Ouelles,

I found Campylone in sand
along beach (living) & also
one shell of Lymnaea megasoma

I took a boat and picked up
Unio cuticulus & Anodonta in shallow
water on sand on N. side of west
end of Lac Court Ouelles.

I then went up the connecting
creek for about $\frac{1}{2}$ mile but found
no Lymnaea megasoma.

Drove along S. side of Grindstone
Lake over a very "Willow"
road, to Shell Lake, where we
put up at the Lakeside Hotel.

All the region in NE. Minn. &
NW. Wis. through which we
have been travelling has been
devastated of its forests and is
now worthless, - excepting again
for growing trees! What a
wasteful creature man is! In his
greed for immediate gain he

has no thought for the future.
The millions made by the lumbermen
have brought little good, the resources of
the nation were wasted, and then a host
of brigands named real estate agents
came in to entice innocent victims
to this worthless land! The shabby
buildings, poor crops show why
these countries are unable to keep
up their ~~growth~~. It is not merely
that this year is dry, & that they
are pioneers, - This poor soil
never will sustain a rural
population. The immense waste
areas & the widely scattered, poor
farms, are a sad commentary
on our "progress" and "civilization".
But is a thought-giving beer-country
(viz signs, etc) and every body should be
happy! - Such nonsense!

Aug. 19, 1933 - Sat.

Found Shell Lake a beautiful, clear
sandy-beached lake, but almost
devoid of life at this end.

I am told that it is shallow &
weedy at the east end.

A fine, clear day

We stopped at Bear Creek, outlet
of Bear Lake, at Hanson.

Found *Notoz*, 1 *Lymnaea stagnalis*, a
few *Planorbis* *campanulatus*, *P.*
bicarinatus (1 *utens*), also *Alia* very
thin *Anodonta*. Large *Planorbis*
trivittatus -

The picking was rather scant.
A dam across Bear Creek has made
quite a deep pool above.

Drove on to Rice Lake.

Dredged in Lake Chetek
(see spec)

A few Jack Pine trees
Drove to the Red Cedar River
2 1/2 mi W. of Chetek

A very sluggish stream with
quite a lot of silt vegetation.

A muddy stream.

A group of White Pine
near Cedar - 2nd growth

Scattered high woods also

Saw a few White Pines at
about 783-4 (S of New Auburn)

Chetek Lake is a long lake of
same size.

S. of Bloomer the solitary
mounts (mounds) appear - like broad
peaks, mostly gently rolling.

Lake Chetek
Setek

Hansel's Bakery
Chippewa Falls

838.1 - Whitehall 22 mi.

Shell Lake 725.2

Back to #24 (at 725.9) 730.1

Road D - 730.5

#53 - 733.8

Sarona - 737.2

Haugen (Adrian) 744.7 1/2

Rice Lake 751.9

Line (P.O.) 753.7

Cameron - RR 760.1

Chetek Santa 768.4

Return - 771.4 1/2 771.8 1/2

" Town 772.8 1/2

New Auburn 781.3

Bloomer - #407 789.5

Eagleton - 797.0

Eagle Pt -

Norma -

Chippewa Falls 805.1 (2 mi)

" " 805.5

" " 806.3

San Claire - RR 816.8

" " 817.2

Brackett 828.2

Forster 832.7

Osseo. RR 840.3

" town 840.54

840.1 " Pigeon Falls 852.7

Coral City 857.0

Whitehall 859.2

At 794 - several pines (wh.)
at 794.8 a good size
High ridges all along to west
and S. W.
Some pines at Chippewa Falls
planted? Probably not.

at about 846
we enter falls
Stopped at Whitehall. Was at
a general store
Had 3 men at gas station tell me
there were no papers sold in Whitehall!
all Scandinavian. Found
papers at Longston (a few).

Saw open saloon with men standing
at the bar in the old fashion.

The lake region through
which we have passed is

a resort now, - it is of little
value for agriculture.

If these people have any
sense they will not drain
or pollute their lakes &
will restore their forests.
But that is too much to
expect! Man, in his blind
greed, seeks immediate profit,
and being a gullible creature
he is easily "persuaded"
by slick-tongued agents that
there is some great fortune
awaiting him here.

God have mercy on us if
the devastating policies of forest
destruction and drainage under
pretense of promoting agriculture,
are continued!

Aug. 20, 1933 - Sunday

Trempealeau River is a small stream with mostly gravelly bottom.

We did not stop.

The day is clear & the morning cool. Whitehall.

All the little mountains & higher ridges along the way are timbered - in a few places partly cleared. Great cuts between Blair & Ettrick. Black River at Ettrick runs in quite a gorge. well wooded.

A lake formed by damming river. The drive from here for a few miles is quite picturesque, & then we emerge to the edge of the Mississippi valley. With the next side very high bluffs. Plains visible.

1079.5 - Over RR. S. 4 Central Cy.

889.9 crossed river

906.9 RR's Lake

Indian camp S.

(Linn Co. RR. 1076.1)

Trempealeau River	859.6
Whitehall	859.8
Blair	867.9 1/2
Ettrick	876.8
Trenchville	879.9
Galesville	885.0
Holmen school	896.7 1/2
Holmen town	897.8 1/2
Midway	899.5
Central Alaska	903.0
La Crosse - RR	906.9
" City	908.4
Calvert	
Stoddard RR	920.0
Rusk	
Scena	927.0
Victory - RR	933.4
De Soto	937.7
Loc #35 (#9)	940.2
Bridge	942.7
Laurey #9	943.1
Church	949.9
	953.0
Cath. Church	954.1 1/2
Waukon #13	959.6 1/2
#13 + #51	962.9
Bridge RR	970.7 1/2

Postville	979.6 1/2
Luana	984.5
Monona - RR	988.4
Froelich - RR	993.4
Siard (stone)	995.4 1/2
McGregor - head of river	1001.1
" - hotel	1001.6
Marquette	1003.1
" return	1003.2
McGregor - hotel	1004.6 1/2
" N. end	1005.2
#13 loc. #18	1011.7
#13 + #55	1012.7
#128	1021.4
Elkhader	1024.3
Osborne RR	1030.0
Strawberry RR	1039.4
#19 (+ #13)	1041.0
Loc #10	1044.8
Co. line	1045.2
Grady RR	1050.2
Manchester #20	1056.3
Turn S	1058.1
Ryan RR	1066.2
" RR	1066.3
Coggan	1073.3 +
Central Cy River	1078.4
Co. farm	1086.4
#161	1090.4
Marion	1092.8 +
#161 - 20 C. Raf. 1898	1098.8
Crane Cr.	1101.0
Shueyville	
N. Liberty	1116.5
Home	1124.0 1/2

Neither Minnesota nor Wisconsin
are states to be admired. Both
have been exploited.

As Labron saw a
Boerner's Dugout
He drove down the river in
quite attractive. The high bluffs,
with gutting "pulps-rocks" are
visible on both sides most of
the way, though the road skirts
the east bluffs.

Sep. 4, 1933

To Mill Creek

Home	0
Rid. toll bar.	.8
Children's corner -	1.2
Linden Road -	1.6
Butter's bridge	2.3
Durbin Co. Lockport -	2.0
Panzer school	3.9
King Road	4.2
Wick's corner	4.6
Bare turn -	5.1
Shimch Road	5.5
Owen Road	6.0
Turn NW	6.1 1/2
No. Liberty Road	7.1 1/2
No. Liberty	7.5
Turn N. -	7.6
" E -	8.0
" N -	8.1 +
" E -	8.4 -
Foot of hill -	8.6 +
School -	9.4
State Quarry cor.	9.8
River bridge -	10.6 1/2
Turn N. -	10.7 1/2
mill	12.3
gate	12.4

Sep. 27 - Iowa City - gas 1.45, oil 1.25, 65 3.35
 Sep. 28 - Palmyra, Mo. 1.65 gas 1.65
 St. Louis - 10 mi. to #67 1.30 gas 26 oil 1.56
 Sep. 29 - Farmington, Mo. - room, garage, breakfast 2.50
 Cape Girardeau Milk 10 cts 10
 Morehouse, Mo. gas 1.68
 Van Buren, supper, room 70
 Sep. 30 - Room 1.00 breakfast 50 dinner 80 2.30
 Doniphan, Mo. gas oil 26 Pop 10 1.57
 Pocatello, Idaho 65 10 75
 Oct 1 - Jonesboro - supper, room breakfast 2.50
 near Harrisburg - gas 1.68 1.68
 Repair tire - Wynne - 85 85
 Forest City - 10 10
 Helena, Ark. Dinner 90 Supper 30 1.20
 Oct 2 - Room 1.50 Ferry 1.25 2.75
 Breakfast at Lula, Miss. 30 30
 Clarksville, gas oil 26 Dinner 70 2.10
 Shaw, Miss. soda 10 cts
 Anguilla, gas 476
 Rolling Fork - cap for gas tank 40
 Vicksburg - Room 1.00 supper 70 1.70
 Oct 3 - Vicksburg 3.08
 Repair tire & greasing car. gas 1.03 4.11
 Breakfast 40. Dinner 72 Vicksburg 1.12
 Fayette soda 10
 Supper, Natchez 82, room 1.50 2.32
 (See end of book for continuation)

1st hr. 40.3

5-

2nd hr. 80.1

6-200.8

3rd hr. 108.5

7-242.9

4th hr. 140.5

Thursday

Sep. 28, 1937 Trip North
 Left at 15719, - 6:40 AM

Home - 0
 Marcon Mills Road 2229.2
 Westgate 13.2 240.2
 Gilmore 26.7 242.2
 O'Fallon 2 248.4
 Mount Pleasant #34 49.3 252.0
 Bonellon - #3 - 71.8 259.9
 #16/4 #61 - 82.9
 Keokuk, Iowa 92.2
 Bridge N. 95.0
 Mo. 5. 95.2
 St. Louis
 Alex. Radin 97.3
 7. Leona Radin
 St. Louis 114.8
 Benton - 127.7
 " town - 128.1
 La Grange. 134.5
 Taylor 142.3
 So. #105.1
 Palmyra - 152.5
 Hannibal - 164.7
 Adams river - 171.8
 New London 173.6
 Frankford 181.7
 Bowling Green 194.4
 Cyrene - 201.4
 Solia - 207.8 1/2
 Auburn 224.0
 225.9
 Marcon Mills Road 2229.2
 Westgate 13.2 240.2
 Gilmore 26.7 242.2
 O'Fallon 2 248.4
 St. Peters 252.0
 St. Charles 259.9
 Mo. Riv. { N. 260.5
 { S 260.8 1/2
 St. Louis
 Shaw's yard 285.7
 #99 King's highway #61 -
 setour cap 296.3
 end 305.2
 Merriam Riv. 305.6
 Arnold 307.6
 Beck - 309.4
 Imperial 312.6
 Barnhart - 314.7
 Beverly 4
 Hieron 320.7
 Festus #4 324.3
 To #25 1 -
 Frank Vall. 18 335.0
 Boone Ford 7 335.0
 Desloge (road) 4 354.4
 Estlin 356.6
 Farmington 363.5

We left home at 6:40 AM.
and drove S. of #161 to #61
and on the latter to Keokuk.
We crossed the river and
drove to Alexandria. There we found
a 26 mile detour between
Alexandria & Canton.

mostly on a wide flat,
then slightly rolling.
Behind La Grange there
is much Phytolacca on the
rocky ~~bluffs~~ which we skirted.
North Fabian riv. at Taylor.
There are practically no
bluffs (just low ones -
leaves of La Grange) all the
way to Hannibal.

Fabian Riv. & So Fabian
have low ~~irregular~~
rocky bluffs for banks.

Beyond Taylor rather gently rolling
surface - all water.

Rough at Palmyra. - North Riv ^{151.1}

Rough & wooded beyond Palmyra
at 166.4 $\frac{1}{2}$ cross clastic
South River.

171.8 - Salt River.

Cumore Riv. at 224.0 - is a
small stream.

Rolling country all the way
down, with woods on slopes & in
valleys. Soil very red at 235 -
seems to be further above
rock layers.

Red stuff extends onto St. Louis.

From King, High E. to

Loughborough Ave.

Turn S. on Virginia Ave
91.8 + 5 to Keokuk.

We stopped at the Bot. Garden (about 8 miles off #61) and I left my plants with Dr. Greenman, and then drove south on #61.

The country gets rougher in places appearing almost like small mountains, and there is still much timber, though it is practically all second growth. We put up at a private home, the Green place, at Farmington. It rained in the middle of the afternoon, & then very cloudy.

20
82
45
91
238

Sep. 29, 1933 - Friday
Millersville - 413.8
He left Farmington, Mo. at AM.
and drove S. on 61.

Farmington (Greenhorn) 364.	Hayti 14.
Mine La Motte 15- 378.6	Canady 6-
Fredericktown ^{RR} 5- 379.7	Groter 9-
To #34 37- 413.8	Holland 2-
To Jackson 3- ^{road} 421.3	State line-
To Cape Girardeau 8- 430.	Garber, Ark. 5-
Turn ^{road} 434-	Blytheville 6-
Rebun ^{RR} 438.1	
Kelso 7- 443.3	total 238
Benton 7- 449.9	
Mokey 5 (road) 454.7	took 60 on
McMullin 7- 461.1	road
Sikeston 6- ^{RR} 466.7	Elsinore - 22- 543.5
Morehouse 7- ^{RR} 473.2	#21 547.1
Grayidge 5- 478.4	#34- 558.8
Hunterville 2- 477.1	Van Buren 566.5
Essex 3- 482.7	#103 566.8
Dexter 6- ^{RR} 489.3	Big Spring Park Park
Dudley 8- ^{road} 498.5	
Fish ^{RR} 6- 504.8	
Mye - 3- ^{RR} 506.4	
Poplar Bl. 9 515.6	
Berrie 7-	
Malden 8-	
Rusco - 8-	
#61-#62 - 12-	
Back #61 3-	
To #62 - 3-	
Conran 3-	
Portageville 5-	

Started about 7:15 AM,

Stopper at 3751 -
collected a few fungi in
woods on logs

This is almost a mountain

All the territory to the Fredericksburg
road is rough, almost mountainous,
and was evidently once covered with a
hard wood forest. Much still is, but
second growth.

At 3867, S.E. of Fredericksburg
Ms. I collected a fungus on logs
+ an Aster. Very rough road

At 3892, on gravelly open slope
along road found a Heleum +
Coreopsis?

At 3936 on opening near
top along #61 I collected a

lot of prairie plants, + also
a Prunus at edge.

They scatter straw on slopes of
cuts along road + then grass comes
up before mowing takes place.

Stopper at 4523 - South of
Benton, on wooded bank

collected. Urtica?
Sium
+ Urtica Cyperus
Lepidoptera

saw Agrostis

Agrostis

Paraphoma

collected, Urtica first!

From Benton to Johnston
country is flat + no trees.
Many cotton-fields.

West of Johnston saw first
rice-field - cont.

Large sand-bank ditches here.

On 3 mi. Spudomaha was short
from Aug. 19 to beginning of 9, (31)

We look at in 5 mi,
we make long notes &
shorter notes.

Some more (not) on flats -
saw Hibiscus militaria
flower W. of D. valley, Mo.
In woods beyond a cardinal fl.
also L. valley near St. Francis Co.
The river is here a narrow and
stream - no somewhat flooded.

At 508.9, west of Nye, Mo.
along a ditch I collected

Polyporus
forget me not
& blue lark swamph fl.

At 509.6, W. of Nye, in
low woods I collected

fungi and a slime-mold on
logs of the small-leaf elm, (see
spec.)

At 525.8 in Ozark - beyond
O'pla Bluff - on black oak stump
(see accom. v. l.) I collected two
specimens of fungi (one new) the
other a *Herceum*

A beautiful drive on
a winding mountain road,
brought us to Van Buren,
on the banks (or bluffs) of the
White Current River.

We then drove 4 mi.
on #103 to the Big Spring
State Park. The huge
spring bubbles up & forms
a good sized stream of
clear water.

I dredged in the shallow
edges of a slack part of

this stream, and collected
following:

Comptosia spachensis 100

Physa

Comatogyna 2

Planorbis trivialis 3

Pisidium few

We drove back when it
became too dark to see, &
put up at _____ in
Van Buren.

Took care of plants & snails,
looked over notes, and added
sample list the plants.

649

649

652.3

652.3

Sep. 30, 1933, Saturday

Van Buren - 576.2

#103

Big Spring

Van Buren 585.4

#103 - 3 mi 593.1

#103 - 16 604.7

Hunter - 6 608.1

Grandin 5 612.6

#103 - 16 626.8

Douglas 2 mi 629.1

Current River 630.2

#103 - 16 631.0

State line 640.7

Middlebrook, Ark. 642.6

Maynard 6 647.3

Brockett -

Pocahontas #103 659.7

Chimney 666.1

20

Walnut Ridge 673.7

#103 675.3

Engel 687.0

#18 - 692.4

Jonesboro 708.5

121 710.3 to Helena

Left for Big Springs at 7:35

The day is bright.

We found great numbers of *Gomph*
on sand in the river & on rocks,
Potamogeton, etc. in the Big Spring
stream.

Also found two *Camphorospha* species
on sand in river (shallow place)

Dredge *Pasadenensis* *Musculina*
& *Arminia* right along edge

of Big Spring stream, in
just place in June (now).

Also *Phryga* on plants, etc.,
etc. in water.

The spring throws up a
great volume of water, enough
to make a big stream.

It is all done by high ledge

water looks like a big ledge
blue in wood below.

Also picked up a few plants,
mostly on rocks.

Left Park at 11:50 am
in fine day.

The C.C.C. camp has cleared all
undergrowth in last valley.

No improvement!

At 606.9, on #21 - Picked up a
Polygona along road. In ground

We found #21 below *Dorvillea*
in very poor condition, recently
graded & cut up during rains.
The first few miles of its
continuation in Arkansas were
worse, however, for the road is a
narrow country lane, unimproved
mostly no bridges, and there were
many ledges & stones in the road.

This extends to Maywood, - then a few
gravelled road. Had a puncture beyond
Maywood, + a storm was threatening.

After leaving Pecos, the
country is very flat but not
swampy.

We drove to Pecos, a
typical Arkansas town, and the
tire repaired. We then
drove south on #67.

At Hoxie we took #63
for Goodwin, but the last 6
miles was over a narrow, shallow
creek, with narrow bridges and
deep ditches. We passed some
cars with difficulty. Before
starting on the detour we
passed a cypress swamp,
with many trees standing up
on multiple roots.

All along, since we started

Arkansas, the country looks
like poor farming country.
We did not see a single
good farmhouse, - all just
shacks, - but with plenty
of children!

So of Pecos we saw
many good examples of land
girdled trees with corn
or cotton planted among
them. Cotton is a common
crop, and we saw two big
loads ^(corn) being hauled to
the gin at Egypt. There
is here also a little
log-shack marked
"Grist Mill".
Negroes are frequent, but

we saw more "white folk"
every wagon which we
met or found (all drawn
by mules) was loaded with
men women and children.
This was Saturday after.
and everybody seemed to
be taking a holiday.

The people are all busy &
their farms, their fields (very
weedy), their out buildings,
their bridges and roads,
all show neglect and
shiftlessness.

We drove to busload and put
up at the Homestead Inn.

This has been a hard day for
Margie, - hard driving over
bad roads.

66 to Forest City.
43 to Helena

tax in Ark. on
7 + a fraction

Oct. 1, 1933 Sunday

Jonesboro	708.5
RR.	713.2
Harrisburg 23	{ 730.6
Whitehall 6	{ 732.2
Hydrick 3	{ 738.5
Cherry Valley 2	{ 744.2 1/2
Vandale 6	{ 751.3
Wayne 6	{ 751.4
Coalt - 7	759.4
Baldwell 4	766.4
Forest City 5	770.3
Madison 3	#70 776.4
Forest City 1	779.9
Bonair 4	783.5
Haynes 4	rec to 792.0
Clifton 5	sin 798.2
Marianna 4	801.1
Lexa 11	
Barton 7	#70 816.0
West Helena 8	RR 823.0
Helena -	

I arose a little after
5 am. & cleaned up & worked
on my notes.

It rained a little at
night the morning is clear.

We started so. on #1 at
7:50 AM.

About 15 miles S. of Jackson
after leaving on Crowley's Ridge
from which we saw
a lot of Power

Soil not gravelly north
at 72 & still finer south.

at Harrisburg we ran off
the ridge again on the flat
to east.

Gas station closed at Harrisburg
& we had to go back to the log-
cabin sta. at the cross roads North

to get gas. A Traveller who
stopped at one of the stations
said he guessed "the Eagle
got 'em" - the K.R.A.!

We follow the RR on W. side
for a long distance

Beyond Cold we ran into
slightly rougher territory,

Rather flat from Caldwell on.

The ridge is east - timbered.

S. of Forest City we travelled
a flat to near Helena.

Much cotton is planted
all along here & to Helena,
but much of it is very weedy,
with patches apparently
with no cotton plants.

walk W. from edge of bluffs
At Madison on #70 there
are deep cuts through a yellowish
hard stuff - 15 ft or more deep
no fossils in the

This is yellow with gray streak
(blue from roots) see samples
No. 1 - 7 on E. side of slope - deep
cut - 18 ft. Taken 6 ft. from base

Top of the hill, on top
gray loam with nodules of iron
& grass up into darker red dirt
layer. Saw only 1 fragment of
Am. ovalis here.

We drove to Helena and after
lunch we drove to the white
loam exposure on the N. side of
Porter str. just W. of 1st str.
We collected one box of shells



We then drove to the N. end of
Elm St. to big cut facing
Poplar str. Here the gray
loam is filled with shells,
some being visible away up on
the face of the vertical wall.
There are many short shell-
fragments of broken shells, & also
~~several~~ several cavities in the loam with

Plant Collections.

Here we collected a series of big *Polygona albobasis*?

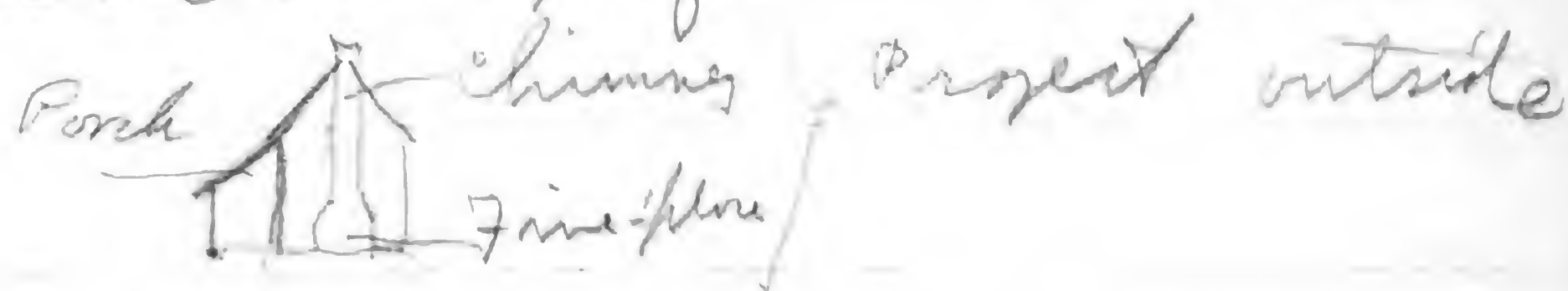
We collected a few loc. fossils at the N. end of Poplar St. Also found a few

Arceuthobium? on the moist surfaces of vertical banks of loess.

Put up at a private home. Examined plants and wrote notes in the evening.

Arkansas is not a very progressive state. Few good farm houses were observed and they were mostly near Helena. Most of the little farmhouses

(both for colored people and poor whites, are built loosely of unpainted boards, and mostly on one plan, viz:



They charge over 7 cents gas-tax, but all they give you is a bunch of broken roads.

West Helena seems to be a wood-products manufacturing center. We could smell creosote and pyrogallol acid?

Oct. 2, 1933 - Monday

We left ^{ferry} at 7 AM, and
crossed into Mississippi on
the ferry. This runs every
hour from 6 AM.

All the way to Lake the Territory is
flat. The river banks are high,
but there are no bluffs.

Beyond the bridge levee
there are some fine clean
cornfields, - much better than
than those in Arkansas.

The stopping place at Lake
was the poorest we have had
in our two summers of
longer trips. (Probably not
clean, though I don't know.)

The morning is quite cool, with cold
wind

189 mi. to Vicksburg

933.2 Leland 812.4

Helena, Ark.

Perry - W. side -

" E side - 832.8
61 - 6 mi 837.4

Lula { 841.6 1/2
 { 841.9

Roseau. 845.3

Coahoma 10 - 851.4
Kendall 853.9

Glover 7 858.1

Clarke 6 864.2
Boggs 8 864.8

Boggs 8 874.1

Albany 12 874.1

Hushpuckney 8 887.7

Shelby 4 891.1

Windsor 3 894.8

Marion Bayou 6 897.4

Merigold 6 900.1

Rehoboth 6 904.2

Cleveland 6 906.4

O'Reilly 3 = 909.1 1/2

Shaw 8 912.3

Choctaw 3 917.7

Helm 9 921.5

Heads 7 925.5

Elizabeth 7 931.4

Leland 5 933.2

Arrola 10 937.2 1/2

Hollandale 7 943.3

947.3

951.0

956.7 1/2 end ferry.

Perry 6 955.9

Blanton 959.1

Mitta Yuma 6 962.4

Anguilla 4 966.0

971.5

Rolling Fork 5

Egremont 4 975.4

Blanton 7 983.5

Valley Park 8 995.1

Redwood 13 1000.2

Vicksburg 11 1007.9

Yazoo Riv 1006.7

The bottomland opposite Wilcox
has a timber growth (rather
young) all over it.

We stopped at 846.2,
beyond Roseacres, Miss.
Here in a sluggish stream
I dredged a lot of *Uria*,
Cambusia, *Anatopygia*,
amnicola, *Viriana*,
Pleuronura, etc.

The *Uria* like *luteola*
had few of the females
gravid, but all those of
Uria *galiciana* were
heavily gravid.

There are cypress trees
with trees on flat
in arby, with houses.

There are cypress trees all along
the streams & draws, and in one
place where large trees have been
cut (trunks are still there) there
were great numbers of small
cypress trees starting.

Much cotton-picking, many ^{hubs}
many gins.

In several places small
chimneys were built on a
wooden shelf - also outside, & did
not reach the ground.

We passed through several
smaller towns, and all
seemed to have cotton-gins.
All the territory through
which we passed today
is cotton country. Most of

the plantations are much better kept than in Arkansas. It is especially noticeable that they are not weedy in most places, and the cotton looks better.

Some of the cotton is still green (the latest var) and seems to have little in the way of bursted ripe bolls. Some fields seem to have the plants stripped of their leaves, - by some insect?

Everywhere now the dusky cotton pickers are in the fields, dragging their long bags strapped over their shoulder. The cotton is then collected

by Teamsters driving wagons with high wagon boxes. The cotton is hauled to the gin loose in these wagons. Late in the afternoon we had another flat tire. This makes one each day these last three days.

We were still some 30 mi from Vicksburg, but no place along the way for repairs.

We drove to Vicksburg, put up at a private house, had the car greased, ate supper, changed dresses, wrote notes, and went to bed. (For additional notes see next page).

all the territory between
the Helena Ferry landing &
the place where #1 crosses
the Upper River. - a green
alluvial plain, evidently
fertile.

In several places especially
below Leland, - a few
small well wooded hills with
fine trees and some houses.
Some of them show signs
of small huts, resembling the
old slave quarters in the low
plantations.

1036.4
1034.3
1034.1

1069.6 - A small shipping
1072.1 - Another station
Oct. 3, 1933. Tuesday.

8,072	#80 Jackson R	1019.3	1233 Woodville 10
	Rooming-house Vicksburg		
	National Cemetery	1021.2	Jurnbull 6
	E. end new 80	1031.3	Laurelville 5
	Vicksburg	#80 & #61 1036.4	Wakefield 4
	See #80 -	1039.8 1/2	(Return)
	Glass 11		Bains 6
	Yokema 2	1050.3	152 Road 3
	Big Black River	1056.7	
	Oaklawn 17		Angola 20 mi?
169	Port Gibson 5	1072.4	Road #61
	Russell 7	1079.5	40 Road
	Lorman 5	NR. 1084.2	
	Harrison -	1091.4	Lindsay 12
	Fargette 10	1093.5	
	(Curve S) 12	1103.7	Scotland 14
	Salmon & RR	1117.2	
	Cannonsburg	1119.6	28 Baton Rouge 2
	Washington HRR 5		about 93 mi
15,192	Hatchey 7	1125.8	
	Office - on main	1126.3	
	Main Canal -	1126.4	
	Canal & RR	1126.9	
	Ireland 18		
	Wilkinson 12		

1119.3 - a creek.

After breakfast we drove
through the National Cemetery
and into the Park. Countless
markers and monuments commemorate
the leaders in the Vicksburg campaign,
and the location of troops.

Followed the old Jackson Road,

In cut along Jackson Road ^{5.1} (W) of
(beyond the Union Memorial)
I found a ^{small} lot of fossils scattered
thru.

In cut E. of Memorial - layer 1
also collected a red.

Another at 2nd larger cut E.
We entered new Jackson Road 5.1 miles E. of #61.

In long cut sloping gently to
W - cut at least 18-20 ft. deep
there were shells scattered all
thru. Part of this was very

hard. This cut ends (W.) at
1034.1 miles - on new Jackson
Road. cut is very, of yellow
loam (gravel & harder below -
probably no fossils)

At 1034.2 1/2, on W. side of
same rather shallow valley
there is another deep
cut - about same, sloping down
to E.

This also has shells scattered
thruout. See 2 boxes
(reaches 1034.3)

At 11/5.1. gravel shown
below 5 or 10 ft of loam

Some of the cuts, especially eastern,
seemed to have no fossils, though a
close examination revealed a few
in most that were examined. They

shells are scattered throughout
the deposit

Had first glimpse of Tiltandia
on upland trees just below Vicksburg

The bluffs below Vicksburg are
rather low and near the E. side
of Road #61. The road is E. of
the Ill. Cent. RR. Small to
1048.8 - runs on W. side RR.

At Yehanna the road turns
up over the bluffs & runs
inland.

At 1055.1 we ran out on
flat again.

The Big Black River is a sluggish
stream, now yellow.

After crossing it we cut into
slightly higher territory, but
there are no bluffs. Loess shows
in banks.

1060.5
1059.8 1/2

(3.8 mi. S. of Big Black River m. 26)

At 1060.5 there is cut
about 6-10 ft deep in
which I found a few fossils.
(6.4 mi. W. of Fayette)
At 1099.9 at 90. end of
long cut on 90. slope
at bend of road N. of
Cannonburg, 12 ft. deep
fossils
scattered all through.
Loess very hard in
places dry, (see fossils)

There were many cuts along the
new Jackson Road and also
where we cut into highlands
between Vicksburg and Hatchery.
It is all yellow loess, occasionally
grayer below, and the fossils are
scattered all through yellow
loess and are nowhere numerous
at any one point.

Much of this loess is very hard when dry, and the shells break easily. I collected lots as noted.

We drove to Hatch, secured our mail, and then drove south on Canal Str. & its extension, to the R.R. near the Gov. Engineer station. I collected shells in the last cut near the R.R. Here the loess appears in the last cut also the road, and only in the upper part, the tower showing the red clay under loess & even gravel below.

We drove in, had supper & found a nice stopping place in a private home, found for us by the car, who runs the Swozey House.

The lady's husband was from Arkley, Iowa, and had been an Ill. Cent. Agent there, at Waterloo and Dubuque before being transferred south.

We changed drivers and I wrote up my notes, etc.

This has been a productive day. Quite warm, mostly clear, with a good breeze. From Vicksburg to Hatch, we drove on #61, which is poorly gravelled, and is a narrow, winding road, leading through woods and over rolling or rough country.

The Engineering plant a little beyond end of Canal Str. Extension, is $2.3\frac{1}{2}$ mi. from Main & Canal Str.

1211.3
1213.7

Oct. 4, 1933, Wednesday

We had a nice stopping place.
After breakfast we drove to the
depot & left the car. First
worked the big cut just W. of
the depot (on N. side) & picked
up a lot of shells. W. of Canal
trees it must be 30 ft. deep.
Yellow fossiliferous loess stands
vertically above. Below I
could see about 5 ft. of loess
somewhat gray. no sample
I fossiliferous to very base.
It rests on the red clayey
layer. Have 3 boxes of shells.
We then went to the big
cut along the RR. W.
Here the loess is vertical,

6 1/2 mi. to Angola road.

To Angola
28 To Baton Rouge
93 (done) to New Orleans
Natchez

1192.2 =
Whitman
1194.2 =
Gastrop.

Cor. Main & Canal 1134.7
1 block S. of (as we came in)
Main & #61-1135.3
Adams Center
Ireland 18-11

1.5

Wilkinson 12-1164.6
River 1165.1

1233.
Woodville 10-1175.1

State Line #1183.4
To Canal Hill 5-11186.7

1271.4
Baton

Wakefield, 4-111908 1/2
Brothers 1191.4

Bains 6-11195.7
(Angola road)

1214.7
1210.1
1210.6

Junica 1214.7

Angola 12-15.8 1/2 Prison Farm

Back to #61-117
Bains 1235.8
1237.5

Lindsay 12-12

1239.4 1/2
1251.0 PK

Scotland 14-12

Baton Rouge 2-12

probably not over 15 or 18 ft.
thick, with red layer below
and then some sand which
caves freely and drops
the loam down.

We collected a lot of shells.
Two boxes full.

We saw some very tall
sunflowers that look like
Helianthus grossus. We
measured one, 12 feet high, but
it was by no means the
tallest. Some of them surely
measure more than 20 feet
in height. ^{margin} picked up 2 puffins.

We went back, did a
little shopping, and after
dinner (about 12:42) we started
South.

To 1150.5 we drove on a
very winding road with many
cuts - mostly in deep woods.

At 1165.1 crossed a small river
clear, with sandy bottom.
At 1171.9 took Pines cone
& leave.

At 1178.5 I got more cones -
somewhat smaller.

At 1210.1, on road to Angelo, La.
a cut 12-15 ft deep, of same
type as at Vicksburg, (also
hard) shows shell scales
all through. Slopes 3 ft (down)
At 1214. 2 cuts with shells.

At 1214. 4 1/2 another deep cut - at New

1217.3
1214

At 1214.7 - Junica, La.,
a fine deep cut - on N. side
shows 12 in more feet of loam
& red layers below

Shells & other all things
& quite abundant. Collected
4 boxes

Return - E. of Junica -

At 1217.7, in smaller exposure
I collected a small lot of shells

At 1217.7 $\frac{1}{2}$ - a cut 10 or 12 ft deep
Few scattered shells (not lot)

At 1220.6. Picked up Polygona
- along creek (1 spec.)

At 1222.6 a very pretty bed
of water Hyacinth in flower.
Took 3 spec.

Went to Baton Rouge, and
after some trouble we located
at a private rooming house

I changed plants & fixed
package for shipping

Went to bed at midnight

A successful day for loam
shells, both at Hatchery
and Junica.

1217.7 $\frac{1}{2}$
1214.7
3' $\frac{1}{2}$

Oct. 5, 1933 - Thurs.

We repacked, attended to
spains, mailing plants, etc.

The day is fine, clear but
warm, with a nice breeze.

Baton Rouge #714 #61 1279.4

Hope ^{villa} 9

Prarieville 3 1295.0 - begin new air line

Gonzales 1299.9

about 1319.8 - older pavement again

Detour 1330.5 1/2 (La More)

Turn to
air line again 1338.8 Town

max
air line - 1340.1

7 Corner - 1350.6

#61 & Canal. 1359.3 1/2

Hotel Monteleone
Bosseville

Saw much of the bunch (cut to) grass
also in the swamp, cut off
great quantities of water
Hyacinth, - patches in bloom.
Just began cut off we saw
fields of sugar cane.

The whole area is very flat.
Saw crowd of negroes with big
cleaver-like knives, - to cut
cane. Saw Palmetto -

Large fields of sugar cane.

At 1333.2 I collected (on levee)

a *Heliconia* & *Argemone* (St. John)

Began return to air line

The trees on both sides are
covered with *Tillandsia*, -
and many dead. Several
miles of this. To 1346.8

Great row of palms (royal?)
down central parking of Canal
str.

New Orleans has fine avenues
(in newer parts) & also fine
public buildings.

The old French town streets
are narrow.

Took Room 809 in The Jung
Hotel - on Canal Str.

Started on sight-seeing trip
Along Canal str.

Old French & Spanish quarters
starting at 1 PM.

Remet on pilings - 25 stories
(St. Charles Hotel)
Lowest part of city is 6 ft. lower
than Mississippi.

Now use a pumping system
for sewage.

Went through French Quarter
Saw Carnot home at
La Fille's house.

Porches painted everywhere with
iron posts.

Went into one of the courts

via. Barren, figs, etc.
Some of streets paved with
cobblestone used as ship ballast.
Jackson Square - a Park
Jackson statue on horse.
Opposite is St. Louis Cathedral
137 m. by.

also the museum the
old Spanish Capital.

Visited the museum - many relics
Lafitte's cell - Wall with
bullet marks - Prisoners shot 2.

Close ran off in the
Went into St. Louis
Cathedral - 3 altars.

saw Gen. Beauregard's
home. Opposite on the river.

now used in part for
Catholic Grammar School
Saw Old French Market
Drove to the docks on river
front below where in
river - Iron bridge - railing
St. Louis Cemetery #1 - about
We went to #2

Also looked at #3
Went through the fine City
Park - Tennis, golf, baseball
& swimming. 11:00 a.m.
A fine avenue of Palms
Saw 'suicide oak' - big
live oak - 23 suicides

Also dead oak
Fine City Park and
McDonald, his apartments in

love, but's school - also gave
park.

Date palms in park were
in flower.

Went to richest cemetery
Metairie cemetery - built up
earth banks & bury - then

Very expensive mansions
& autos cost 5 to 85 thousand.

Owned by private associations
Fontainebleau ^{ave} (Fonten. blue)
a beautiful drive through
best residence part.

Then drove along Broadway Ave.
Here run buses and trolleys

The trolleys average out to Carb.
St. Charles Ave., most exclusive
residential district

largest in city

Audubon Park - 3000 acres
Audubon Boulevard - Rivote
Zulacque Avenue - is off
park. Opp. entrance

Audubon Park has a fine
Oak Drive. ^{minutal tree}
6 ft. in diam

The old rail is safe right
Robert Lee Monument
Post office, with Lafayette
square opposite

Jefferson Davis Ave
Park with Tule
Banks - Hibernia (largest)
American
Federal Reserve

We took a walk on Canal St.
in the evening & bought cralines
a sugar candy with pecans -
the creole candy.

Oct 6, 1933 Fri

#3

We started from the
Jung Hotel at 7:45
am, & drove east on #90.
A beautiful day, - clear &
pleasant.

Stopped at Green's Ditch, Lake
Catherine Lake - got an Iowa
fisherman (from Jefferson) to dredge
some - (clams) for me.

At 1388.7 - They were dredge
in shallow water - 6 or 8 ft. Salt water.

At 1398.6 a small grove (pine) plant
of Pines. Also scattered some
farther on.

Bayou Adell we run parallel
to RR. Road is west & N.
all this corner in flat.

1427.2 - Loftown road
1466 - Biloxi

Jung Hotel	1362.2	State line, Ala.	1508.1
#90 turn E.	1363.2	Grand Bay ⁴	1511.7
Fork for bridge	1380.3	Livingston	1518.5
Short bridge	1384.0	At. Elms ⁵	
Green's Ditch	1388.7	Therodre ⁷	1522.9
2nd bridge W.	1392.9	Mobile ¹²	1537.1
E.	1393.7	Cochran's End ²	1544.5
Village acrossed	1400.7		1544.8
Widell (Hotel)	1402.8	25 bridge -	1549
RR.	1402.9	Appalachian	1552.5
Alton (Sta.)	1407.1	#31 W. #90	1555.1
Pearl River Sta.	1410.6		1565.5
Pearl riv. bridge	1410.7	Stapleton	
E. Pearl River	1414.4	Bay Minette	1576.3
RR.	1415.9	Escambia	1588.7
Bay Mt. Farm	1442.0	Oryas	
W. low bridge -	1443.1	Perdido	
E. " "	1445.1	Atmore	1598.7
Pearl Church	1448.3		
H. Schol	1448.7		
main pier (dock)	1448.7		
S. end dock	1451.4		
Sulphur	1458.3		
Biloxi W.	1466.0		
turn to town	1470.0		
back to town	1471.7		
W. in house	1473.7		
E. " "	1475.2		
Ocean Spring	1476.2		
Pascagoula	1493.5		
Most At	1497.3		
Grand Bay	1502.5		

Many young pines on cut-over
land N.E. of Alton. A lumber
territory. Saw large cult. persimmons.

Many seedling pines on cut-over
land at about 1417. etc.
Also at 1418²⁰ etc.

Pine groves also over.
Fine young growth at 1424 etc.
& to Bay St Louis.

Stopped at 1431, for plants.
This is a cut over flat
& a part of the material
came from wet draw
along road.

See Specimen.

There are rather large open
prairie-like spaces; look like
prairie. (see my plants)

Oralines
(candy)

Saw few pines boxed for turpentine.
At Pass Christian a fine
shore drive - with view of
cottages & residence on opposite side.
The drive along the beach is
fine. Beautiful live oaks, magnolia
even palms. —

Live oaks all along beach &
pines in background mostly

Small pines abundant on
cut-over land E. of Ocean Springs.

Saw several persimmons orchards
mostly stripped & losing leaves.

Some pine trunks very fine -
8-15 ft high.

At Orange Grove a lot of
Spanish Moss on pines,

Pines all across Mississippi
and into Alabama.

at 1509.8 in Miss. picked
up a few plants. The yellow
legume is a weed.

Mobile has palms, live oaks
many trees

Row 90 & 5 others go through
main part of town

After leaving #90 on #31
we entered somewhat rough
country, with scattered pines etc.
We had supper at Bay
Minette, Ala. & drove to Atmore
(22 miles) after dark.

We put up at a rooming-house
the "City Hotel". Preserved plants
& wrote notes in evening.

The trip across the head
of Mobile Bay is peculiar.
We first crossed on the

Cochran toll-bridge, then had
a long drive across the
lowlands, drove along shore of
Mobile Bay, crossed two more
bridges, and then ascended to
somewhat higher ground, where
#31 leaves #90, - the latter for
Pensacola, the former for
Montgomery.

The flat opposite Mobile is
cut up by lagoons.

Saw 1 dark Pelican.

Oct. 7, 1933, Saturday

Started at 7 am. Drove to Bluff Springs - collected a few fungi on logs, Pines & Lignum.

Got Mr. Cohen & a boy to get clams in the Escambia river. Collected plants & fungi.

Drove back to Atmore. Many small pines between Flomaton & Atmore.

Going N. on #11 we passed the State Prison Farm, a well kept place - large tract. The cornfields do not wear stripes, but have white uniiform (simple)

At about 1659 the country is red, cut-over, rougher, but small pines are everywhere

1626.4 back to Ala. line

Atmore, Ala. 1597.3

Canoe 2.5 1602.3

Waukegan 5.2 1611.5

Flomaton 9 RR 1612.2

State line 1612.4

Century 1614.0

Escambia 1614.0

Century -

Bluff Springs 3 1617.3

RR 1617.9

Back to Bluff Springs 1626.5

#31 1627.2

to Atmore 1641.4

as west 1647.0

Gas station 1650.9

Bluff - 1661.7 1/2

Tracy City 1673.2 2

1673.4

Monroeville 1680.1

Purdine Hill 1682.5 1/2

old farm 1687.1

clayburn

Gas station 1687.7

Purdine Hill 1689.7

Fork 17

Monroeville 1702.2

Saw a flock of Turkey buzzards
around some carcass near road.

Stopped at the Ureah Gin &
watched process of ginning &
binding of a bale. Saw
crops out. Sold to oil mills

Short-staple cotton only,
grown here. Long-staple mostly
in Oklahoma. Brings better
price, but crop is much less.
Sugarcane grown only for local
use - syrups.

Cotton & corn chief crops.
Cotton bringing here below 8 cts
here, but has been as low as
5 cts. in other places. Now
is 9 1/2 cts. here.

at 1675.4 Wm. of 7 in to City
Ala., took out - saw & acorns

at 1679.2 I collected oak
acorns - lots (narrow, but some like)

We drove to Claiborne, - once
a prosperous town, now a ruin.
We drove to the Hawks home
and Billy lead us to the
interesting fossiliferous beds.

We collected a lot of shells
and Billy gave me a lot
more, - among them *Turritoma*
(*Pleurocena*?) from alluvial.

Deposit along the Alabama.
The shell-bearing stratum
is thick & rises high above
the river in bluff on E.
side of the Alabama.

I also collected a few
plants and Billy got some

periwinkles, and also a few clams.

I also collected a few plants. The Gomobasis were on rocks, while the Urin like anelondoides) was near water's edge in sand.

We purchased a few peaches. Billy Hanks gave me an old corn-sheller.

We drove back to Monrovia and spent the night at a private house.

The country between Claiborne and Monrovia is quite rolling, and the soil is red.

At Claiborne they told us

that Claiborne once had 15,000 people, & that a yellow fever epidemic practically wiped the town out.

Our land-lady at Monrovia, however, who said her father lived at Claiborne, said it probably never had more than 1,500 inhabitants.

That she never heard of the yellow-fever epidemic.

Our land-lady at Monrovia was a talkative body, and like almost all Southerners whom we encountered, extremely anxious to please.

Southern civility was everywhere displayed.

Oct. 8, 1933, Ann

Another fine day. We packed
(material, etc) and started towards Selma

Drove back to Claiborne to get
hale. At 1712.00 in woods

creek bottom I collected bugs in
fallen log.

Got the line + went, to ^(with boy) ~~some~~ ^{some} ~~some~~
creek, a mile above Claiborne
Ferry. (Billy Hanks, Claiborne, Ala)

We collected some Unios, a
lot of fungi & some plants.

The red berries came from small
tree, also Entoloma.

The fungi marked "from oak"
were collected on fallen branches
of the water oak (see box & acorn)
(We then drove back to
Saw Palmetto, etc.

415 Washyln

Monroeville 1702.2

at Monroeville 1705.0 1/2

Purdue Hill 1715.0

Claiborne Fork 1718.1

" Fork 1718.6

Purdue Hill 1721.8

Monroeville 1734.2

Peterman 1740.0

Sumner Spr 1744.2

Beatrice 1751.5

Pinville

Midway

#10 —

1772.0

Fourt Home ^{road} 1778.9

Greenville ^{#31} 1791.9

St. Deposit 1805.6

Devenport

Moselys

Montgomery 1843.4

Monroeville, and after eating
lunch, (late) drove to Montgomery

in #47, #10 and #31 and stopped
at an apartment house at

no. 415 Washington St.

Had supper, changed dress,
wrote notes and went to bed.

Oct. 9, 1933 Monday

We stopped at C. B. Fenn's, no. 415
Washington St., Montgomery.

After breakfast we drove to
Wetumpka. We crossed the
Tallapoosa Riv., - a red stream, &
drove to Wetumpka. The Coosa
here has rocky ledges along its
shores, & there are rocks in the
river. Mr. Stoddard, a local
carpenter, said there were few
mussels & "pennywinkles", but you
could get them only when the water
was down. It rises & falls about
6 ft. here, - on account of power
dams above.

We drove to "Cooper" & turned
E. on # 22 to the ferry

Bridge 1853.1

Montgomery 1843.4
Sum to Wetumpka 1845.9

Wetumpka (Bison) 1848.0

X Wetumpka 1860.2

Return Coosa 1862.7

Selma fork 1869.9

Wetumpka 1871.7

RR Sta 1872.5

Wetumpka 1876.

X Coosa Riv.

Wadsworth

X Wadsworth RR Sta 1885.1

31 - 1886.3 1/2

Verbera 1889.5

Cooper # 22 1891.0

Coosa Riv. (Ferry) 1899.0

Cooper 1903.5

Blanton # 22 1911.3

RR 1926.9

Mapleville

Plantersville 1935.8

15,589 RR Sta

Selma # 43 1955.5

80 1958.6

Ferry -

Spratt.

Heiburn

across the Coma. The valley
here is preterrene, wooded
hills & ledges, & the shores
are sandy. Water reddish.
Saw one valve of *U. anodonta*-
like shell. Bortman said
there were a few mussels &
'periwinkles' at the dam, about
2 miles above, but there were
very few in the river.

The power dams have about
ruined the river for shells.

We drove back to #31
(Corpor) & on to Clanton,
then by #22 to Selma.
At Selma we put up
at a private house, -
Zorada's Place.

This was about the poorest
day that we have had.

The lower Coma is not
very promising, though
perhaps we might have
found better if the water
had been lower. They
tell us that the water
(from power dams) drops
about 1 foot in the morning,
but comes up again later
in the day.

Oct. 10, 1933 - Tues

We stopped at Gorada's Place, Selma

We drove to Whitman's swimming

pool. I collected old clams,

some plants, & fungi & lichens

from pools. The fungi on

ports were on *madia* - *leaves*

oak

We drove on #43 across the Cahaba

beyond Spratt. The valley is

broad & the river a dirty yellowish

The stream is in bottom, gravelly,

without rocks & with some logs

We followed #5 to Lenoirville

at 2013.6 - a creek with deep

pool yellow shells, - *Pisidia*,

Amnicola, *Planorbis*, etc.

Selma 1958.1

Whitman's pool 1962.0

Selma #34²² 1965.7

Swamp on #43 1966.1

Sw. 80 + 8 - 1967.5

Felix 1980.0

Spratt 1990.0

Cahaba 1991.6

Fork #5 1992.2

Heiberger - P.O. 1993.6

Harrisburg 2008.2

R.R. & sawmill 2014.5

Cahaba R 2016.1

Centerville " return #25 2016.8

Big Mile 10 2026.6

ashby

Brierfield 4 2035.8

Wilton 4

Monteville 2 2037.3

Cahaba #31-4 2040.7

Columbiana¹⁰ 2054.5

at Centerville
Stopped along Calumet River
collected old ruins on bar &
mounds on rocks.

Also some fungi & a few
plants.

We drove to Columbiana on
#5 and #25.

We put up at ^{James} Mr. Findlay, the
restaurant man who has a house
next door to his cafe.

Left the car to be greased, etc.
mopped, changed drivers, wrote
up notes and went to bed.

The lower courses of both
the Cossa and Calumet were
disappointing. It is
evident that the sink
field in both cases is in

The upper courses of these
streams.

The region through
which we passed is all
red-soil. The natives
ascribe the yellow
colored condition of the
Cossa and Calumet to
the "Georgia hills" but
I found the upper course
of the Cossa, at Columbus,
fairly clear.

2066.8

Oct. 11, 1933, Wednesday

Packed & drove to Wilsonville via #25. The country here is rough & higher parts are greenish.

We stopped at McGowan's Ferry & young Dewberry took me to the rapids in the Coosa below the ferry.

On the way down we collected ^{4 or 5} *Brachycephalus* *unius* and *Platanus*, along shallow sandy edges of the river, and then collected a lot of *Strophodontidae* on rocks in the rapids below McGowan's Ferry. Dewberry will get more shells for me.

Cahaba Riv. at 2096.9
Fishtown? 2101.4
Columbiana 2054.8
Wilsonville 2063.9
2.7 mi 2064.1
Cahaba Riv #64

~~Cocoa (200 ft)~~
#25 Return 2066.5
Wilsonville - 2066.8
Harpersville 2075.3 1/2
Birmingham 2106.2
#5 #431 -

Washburn -
Black Warrior Riv 2127.0
Morris 10

45.4 bridge
- 46.2

Emberly 1
Black Warrior Riv 2127.0
Warrior - 2129.3 1/2

Mount Spring 6-21 36.0

Wagon 3-21 39.1 or 40.

Garden City 8-21 50.0

Hanceville 3-21 52.7

Cullman 7-21 59.2

Cocoa - 14 - 2173.8

Weterville 2 - 2176.0

Hartselle 5 - 2181.7 1/2

Decatur 12 - 2194.2

We drove to Wadenville &
finding no restaurant we

Then drove on # 25
to Yellow Leaf Creek
at 2069.5-

We gathered a lot of *Physomelania*,
Littorina, *Littorax* by Clark, etc.,
on rocks at the edge of
Yellow Leaf Creek. The
Littorina were mostly under
the large rocks.

This was a rich haul and
I will ask Dewberry to come
here also.

The *Pleuroxena*, etc., were mostly
on leaves, rocks, etc., in shallow
edges of creek.

all were collected by hand
as the bed is too rocky (large
angular stones) for dredging.

There are rocky places and
deeper pools in the creek, and
undoubtedly many more shells
would be found if a more
careful survey of the creek was
made. As it is, this proved
be one of the best collecting
grounds on the trip.

We followed # 25 to the
junction with the Birmingham
cut-off, # 64, - a well-paved
road.

This proved to be a very
pleasant drive, as it carried us
first into rolling country, and
then through low mountain chain
to Birmingham. These mountains
are well wooded, but it appears
to be second growth. Pines mixed with

broad-leaved trees make
up the forest.

We stopped at the Cahaba
River, - here a rapid, clear
mountain stream, and I
collected a small lot of shells
(*Goniobasis carolinensis*?). They
were scattered rather plentifully
on the rocks, and I gathered
my lot by hand from the shore.

It was dark before we reached
Birmingham, but we had a
good view of the higher mountain
ridge lying east of Birmingham
and extending S. W. to N. E.

Birmingham itself is in rough
country, and for some distance
northward we were plainly in
the hills.

We drove through Birmingham, first
along #64 until we reached #31
again, and then along this
through the main section of
the city, - now brilliant with
the evening illuminations. This
is a large city (over 290,000) + looks
well, but just now is suffering a
slapse from the depression. As
someone put it, it is dead.

We followed #31 northward, and
after crossing the Lowest Fork of the
Black Warrior River, we stopped for
supper at Warrior. We were now
out of the hills, but could see little
as the night was dark. We
drove to Decatur and put up at
The Ligon Hotel, - a good place.
We got in at about 9:30 PM.

Oct. 12, 1933 Thurs.

In the morning we drove to Swan Lake (what I formerly called Mass Lake). It is a long cut-off lake with about 15 ft. of water in deepest places, and is bordered with low, swampy shores, on which the tupelo (now in fruit) grows in great abundance.

I dredged for *Pleuroxema* & *Campeloma*. The former were quite abundant in the shallow margins, on dead leaves, mud, etc., & the latter were scattered in the muddy parts. Also dredged a few small *Anodonta imbecillis*? Marks left me & then called for me. I also collected a few *Zonit*, and lots & lots of *Tupelo*.

We stopped at Decatur to see Mr. O. L. Newson, a shell-dealer & fisher, and got a few shells.

Decatur 2202.9 - by #31 2203.4 1/2
Tennessee-Bridge S. 2203.7
" " N. 2204.0

Green River

Lanier

#2 & #72 (#31) - 2216.1

sin - 2220.9

Antville 2238.4 Big Spring

Monte Land 2245.

Hindville - 2250.2

#31. 2272.1

Athens - 2273.5 at turn

Rogersville 20-2272.6

Elgin 6-2298.7

Kellen 8-2307.6

Florence bridge 09.1

I took a boat out, but got nothing for my trouble.

We had dinner, called two M. Orders (\$50.00) and drove north on #31 to #2 & #72, & then on the latter to

Decatur now embracing old Decatur and New Decatur, - now all one.

Huntsville. We drove to Spring Creek and found it dammed near the source, but below the dam the small *Goniobasis "bella"* was very abundant on the sandy bottom, on rocks, etc. I collected quite a lot, and we drove on to Monte Sano. It was getting late, and quite hazy, but we had a good view of the mountains to the south and the valley to the west.

We drove back to Huntsville (a city of some 30,000), then (in the dark) via #2 & #72 to Athens, where we had supper. We then drove on to Florence via #2 & #72, here a very rough gravelled road with many curves. We put up at a private ^{home} which advertises room for rent.

Oct. 13, 1933, Friday

After eating breakfast and getting cards we drove to the Wilson Dam at Muscle Shoals. We watched a government tug ⁽³⁾ draw two barges of gravel and one of sand through the locks (on the north side). Each lock has a lift of about 45 ft., & takes about 15 min. to fill or empty) each lock.

We then scrambled down ^{over} to the rough rocks below the dam. We were escorted to the restricted area by the watchman.

We picked up many specimens of a very small *Serratoporus*, and a large *Pleuronura*. The former were along the shallows

edges of the pools, mostly on smaller stones. The latter were on larger rocks (mostly) in the larger pools.

On the return we collected Lymnaea and Physa, mostly on the algae covering the wall of rock over which water trickles.

We then drove back to Shoal Creek, now deeply flooded by the dam, but returned at once and drove across the Tennessee over the dam. We also inspected the power plant on the south side, saw the big turbines, generator, etc., and then drove on to Sheffield and Tusculum, where we had dinner.

We then drove to Cherokee, thence via gravelled road to Riverton, where I got quite a lot of clams from

Florence 2317.3

Jam to dam 2320.7

Shoal cr. 2327.1

Return dam. N. w. 2332.1

" S. " 2332.9

Sheffield turn left 72 2339.6

Tusculum 2341.6

Barton 2350.1

Cherokee 2357.8 1/2

Riverton 2373.7

Cherokee 88.9

Miss 98.3

Juba 2403.1 - hotel
Road #72 24

a clam fisherman, & a few dead (large) Lymnaea.

We returned to Cherokee over the picturesque road winding over the high, wooded hills. Has supper at a restaurant, & drove on to Juba, Min. where we put up at a boarding house, —

after a sumptuous breakfast

Oct. 14, 1933. Sat.

Left Inka (via #72) for Corvillo
The region is rolling - mostly
most covered with second growth
timber, pines common.

The soil is evidently poor &
the small patches of cotton, corn
& potatoes? were poor, with
bare patches here & there.

The dry season has evidently
been hard on this area.

The soils are not red here,
but a

at 2423.7 (E. of Corvillo, Miss.)

I collected a *Halimolobos*,

Near Selmer, Tenn. where soil
appears again, but in
patches.

6.9 mi Hickman to Paducah
180 " Paducah to St. Louis

Inka #72 - 2403.3

(64.6)

Burnsville - 2411.1

Glen 2418.2

Corvillo P.O. 2428.0

State 2432.3

Midway 2437.0

Selmer R.R. 2445.0-

Cathel Springs 2449.6

Chatter 2459.3

McNairy

R.R. Henderson 2464.1

Sum 2470.5

Madison 2477.3

Berlin

R.R. Jackson 2480.7

R.R. Falls 2499.8

Arans 2506.0

Marion Ky. 2512.0

Friendship 2518.7

Segrett 2521.7

#5/443- 2530.0

Low 20)

Back to #51 - 2531.0

Turn W. to old road 2533.1

Return to #51 2534.0

Oxensville 2535.9

Obion R.R. 2544.5

Bogota 2546.3+

Ridgely (Road) 53.6 1/2

Wynburg 58.1

Liptonville 61.5 1/2

New Market (R.R.)

Phillips R.R. 70.3

State Line R.R. 72.0

R.R. 73.5

Bondurant (R.R.) 80.8

Hickman

at Jackson, Tenn I collected
acorns & lvs. of Quercus phellos
stems in shallow valley
at 2494.3 $\frac{1}{2}$ & collected
an oak (& acorn), cork elm,
red-barked shrub, & red-barked
tree (Myrica).

Loess appeared about Mary
city. & it is notable that the
cotton & corn crops are better,
also farm houses & buildings.
At Friendship the red soil
appears in gullies (gullies)
below the loess.

Also on cut along road
near overpass bridge at
Friendship. Several (6-8)
ft. of loess.

The old cut S. of Dyersburg shows
no shells, & well down on #78 towards
Hickman.

At 2543^{2535.9} - in upland woods
along #78, picked up Galium
& an oak & a Juniper from
stump of latter. Took lvs
from shrubs.

At 2543.9, on #78 NW. of
Dyersville we picked up a
lot of small shells (& a few
large ones) washed out of a
bank of loess, in road cut in slope,
at least 18 ft. deep.

This is yellow loess of
the usual lower Mississippi
type.

Beyond the loess cut, on lower
lands we saw the finest
cotton fields, - especially near
Ridgely and to N. of Tiptonville.

All this part of the trip
to Hickman (via the N. part of
#78 & its continuation in Kentucky
#94, in on an alluvial plain
on which we saw the largest,
finest & most numerous cottonfields
of the whole trip. The cotton
was everywhere being picked
and hauled to the gins.

As we approached Hickman
we drove along a ditch lined
here and there with Cypress.
I collected lvs. and cones.

We reached Hickman at
about 4⁰⁰ PM. & at once drove
close to the "exposed" cuts, and
walked along the path just
below the loam. We found very
few fossils, for nearly all

The cuts are overgrown, and
the few that are visible have
not washed for a long time.
We also picked up a few lvs.
under leaves on this bluff,
mostly *Polygonum tridentata* and
Laminaria alternata.

Then drove to the strand-
line, and also a short distance
toward on #94, but neither
collected any fossils.

We returned and stayed
the night at the private
home of Mrs. Dodge on
#94 (also #94) and had supper
at Mrs. Clark's, across the street,

Oct. 15, 1933. Sunday

Left Mrs. Dodge's & had breakfast before 7 AM. Drove S. along bluffs, and found few remains, and then only with fragments of shells. Returned to Magnet in AM, on the bluff above Eden.

Drove on #94 to #51, & had battery up in Clinton Drove on road to Columbus ferry (#58) & at 2621.9 on timbered bottomland I collected a few fossils & leaves, - also a water plant on pond.

Drove to the bluff near the Columbus ferry. Here a deep cut

near Dodge

Hickman, 2590.8

Cape RR 2599.7 1/2

#51 - 2607

itchfield

Clinton 2616.9

Turn to Parkwell 2627.3

Parkley RR 2630.8

Parkwell RR 2637.6

Wichiffe ^{new P.O.} - 2646.1

Wichiffe 7 2652.8

Wichiffe 4 2657.0

Wichiffe 5 2662.0+

Wichiffe 5

Wichiffe Hill 4 2670.5 1/2

Wichiffe 8 2677

#45 2677.3

Bridge - S. side 2678.0

- N. " 2679.1

#45 - 2680

Metropolis #45 2688.9

Choate - 2694.7

Mermet 2699.6

Vienna #146 2710.0 1/2

on #146

West Vienna RR 2714.6 -

#51 #42 2729.3

Anna - 2730.1

Cobden - 2735.5

Shakanda Road 2742.3

Carbondale #3 2751.1

Murphysboro ^{Courthouse} 2758.6

Finney 6 - 2765.7

Vergennes 4 - 2768.9

Pystis 12 - (2) 2781.0

Pineknayville ^{turn} 4 - 2782.6

Sparta 19 - 2801.5

#152 - 2807.6

Wichiffe 5 -

Marion 5 - 2811.7

Langhorne 5 - 2816.3

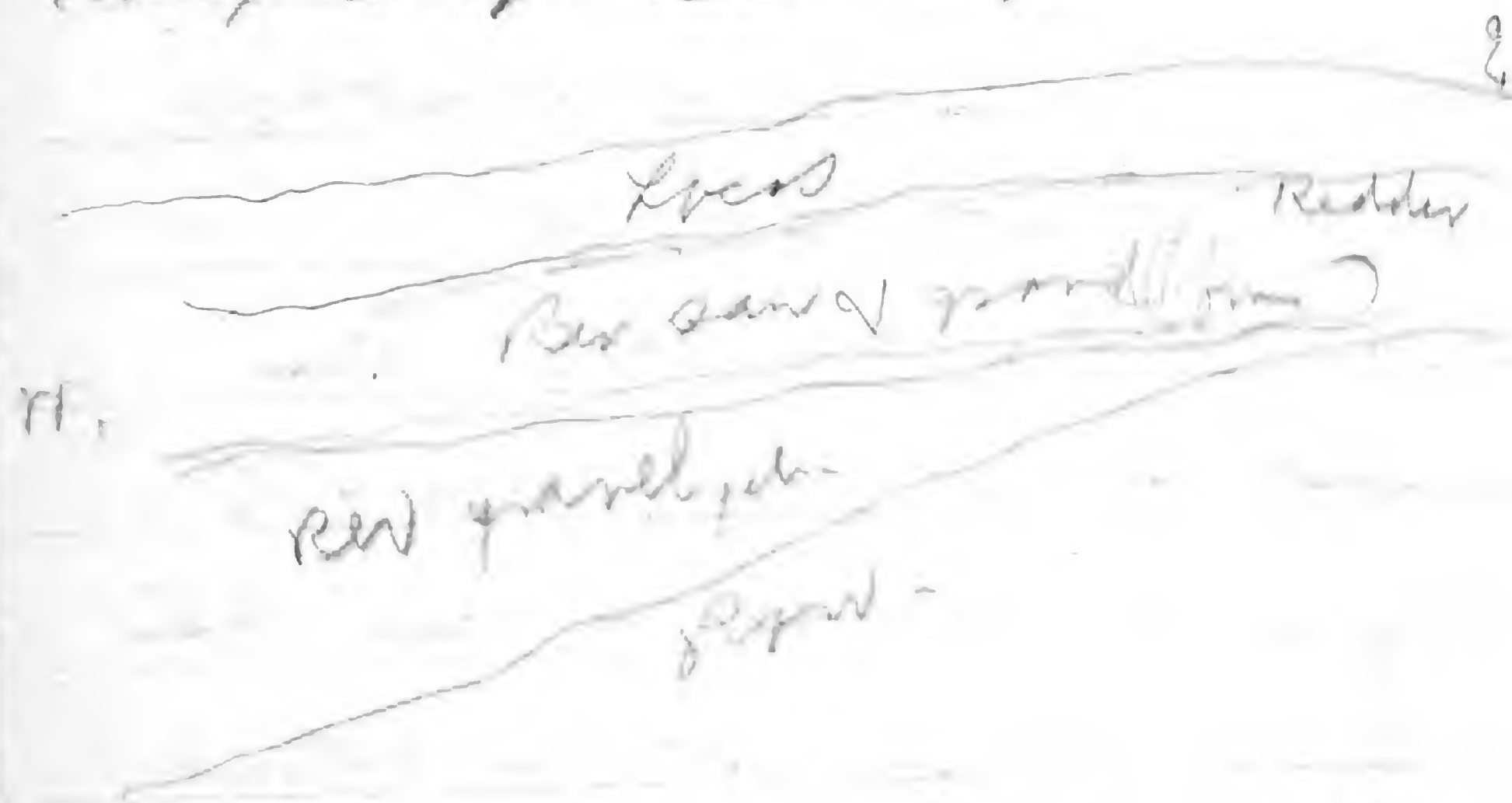
New Athens 5 - 2821.0

Freeburg 8 - 2829.1

Belleville 8 - 2834.1

Turn to bridge

shows loess (6-12 ft.?) or a
reddish fine layer beneath
which are irregularly
banded layers of red or
reddish sand & gravel.
A horizontal layer of a hard
gray clay - 5-12 in. thick,
among these red layers



We drove to Bardwell and then
on #51 to Wadcliffe. All along
there are cuts in this rolling
country, but they show only

the reddish yellow loess, - with
occasional red gravel underneath
in the deeper cuts.

Everywhere there are eroded
gullies, - especially where
forest had been removed.

There is still an occasional
small waterfall.

At 2647.6 east of Wadcliffe
a cut shows 6 to 7 ft. of yellow
loess, with a few nodules & then
about 2-4 ft of gray loess with
many more nodules & iron tubules
& rusty layer 2-4 in thick
separate them. No fossils.

Above the red loess there is more
gray loess with rusty belts, up
to about 6 ft., when a narrow
rusty line separates this from the

yellowish loess above. The latter
has gray streaks & black
carbonaceous lines.

Took samples of upper & lower
(yellow & gray) loess.

We crossed the river on toll-
bridge below Paducah & took
#145 to Metropolis and #145 for
Vienna.

Beyond Metropolis there are
rather gentle swells, then more
rolling (low). Cut in road shows
gray loess like that on S.
side of Ohio River. Shows well
at 2692.4.

At 2692.8 gray loess? about
5 or 6 ft., then yellow drift-like
layer 5 or 6 ft. & then below, a
reddish drift-like layer, about 5 ft.

There are pebbles throughout the
two lower layers.

Other cuts (more rolling)
beyond, are similar.

No fossils seen, but find if
any shells would be found
on the surface today, except
where there are rough wooded
bluffs & ravines.

Barred through ²⁷⁰⁰ swamps are
at 2698.9 - ^{a good} & many cypress
trees appear.

Cypress up to 2704.4 at 2704.6
somewhat higher bluffs (wooded)
appear. We go up on higher
ground - Rolling & much timber.
From this on it is higher & more
rolling. -

Saw many peach orchards after
leaving low ground.

Also some pear & apples

Especially beyond Anna, - many
peach orchards.

Orchards very abundant up
to about 2748. The latter

part has more apples, -

just more peaches

Ill. State Teachers' College at
Carbondale.

Same section all along in rougher
parts - same near
Murphysboro -

The rougher fruit orchard
section through which we
passed produces a remarkable
lot of fruit, and apples and
pears were offered

at several places at stands
along the road.

We increased the distance about
mile by following #13 instead
taking the cut-off on #152

Pinckneyville to Eldon.

We reached Belleville after
dark, and hunted for a

late stopping place, but
found none. We finally located

on the recommendation of a gas-
station man) at a small hotel

known as the Dittie Hotel, kept
by an old German couple. It

proved to be a good clean place,
and it was very convenient.

I packed a package of plants +
drivers for Miss Cavanaugh.

21 10 Russell - + 1.2th slow 7-1

Oct. 16, 1933 Monday.

It rained heavily at night
We packed and started for
St. Louis, - 13 miles away.

Started at 2838.4 -
P.O. - 2838.9

E. St. Louis

Bridge - East 2852.1 road

" " 2853.0

" W 2853.5

" " approach 53.9 -

Choteau av. 55.0 -

Lower Grove Ave
+ Russell 58.3 1/2

(We mailed the package of
plants at Belleville.)

We drove to St. Louis via
the old free bridge.

We drove to the Shaw Garden
via Russell Ave., & Mrs. Lu,
Dr. Morris secretary, directed
us to Mrs. Nelson's home at
4252 Shenandoah Ave.,

for a room, to Mrs. Leahy,
#4244 for board. We could
not arouse anyone at Nelson's,
Mrs. Leahy got a room for
us next door to her home,
at the home of Mrs. Childers,
at 4242 Shenandoah. These
places are less than a block
from the Shaw Garden and are
both nice and convenient.

I went to Dr. Greenman's
office, located, arranged
my materials, and started
to work. Margie rested
most of the afternoon.

In the evening Margie changed
the plants and I wrote labels.
I worked up Betula and Carya

Oct. 17, 1933, Tues.

I continued to work at
the Herbarium and worked
over *Woodia oxybaphus*
Smilax { *Ranunculus*
Potentilla { *Thalictrum*
Ribes and *Vitis*.

Margie spent the day
down town, trying to shop, and
at a movie.

In the evening she changed
plants and I wrote labels,
and tried to catch up
with the notes.

Oct. 18, 1933 Wed.

I spent the day at the
herbarium and worked up
Equisetum, *Iris*, *Comandra*
and started on the *Leguminosae*,
with *Astragalus*.

Margie walked about in
the vicinity, and visited the
Bot. Garden, - particularly the
orchid display.

In the evening Margie
changed drives and I wrote up
some notes.

Oct. 19, 1933, Thurs

I worked at the herbarium all day, chiefly on Leguminosae, Ericaceae, Dodecatheon, Onosmodium, Plantago.

A rainy, dark, disagreeable day. Marie spent the forenoon in our room, and in the afternoon went to town.

In the evening we called on Anton Klobasa and his two daughters at 4014 Magnolia Place, - only about 4 blocks from our stopping place. Mrs. Childers at 4242 Phenixville Ave.)

Oct. 20, 1933 Fri

I worked at the herbarium all day, - on Labiales, Compositae, etc.

In the evening, we dined with Mrs. Childers, - our hosts, - then packed, preparatory to going in the morning. Marie went shopping in the morning & visited in the afternoon.

Oct. 21, 1933 - Sat

We left about 7:30 + drove to Alton, Ill.

N. of St. Louis the surface is rather gently rolling and practically all under cultivation.

We crossed the river & Clark Co. & across the Wisconsin & the Mississippi to Alton.

In valley N. of 16th St. & E. of Piassa (#3) there is a loess cut partly up hill about 10 ft (or 2) deep. The loess is hard (usually) reddish or yellow above, with few nodules & few shells, mostly broken (see shells under sample).

A larger specimen was so badly broken it was not recognizable.

3092.
2865.7
226.3

4242 Sherman Locks
St. Louis 2865.7

Iron River Park 71.7

St. Louis 75.4

#77 78.7

Bridge (Mo.) 83.8

St. Louis 84.1

#84 2885.4

Bridge 2887.9

#88 88.3

#88 88.3

#88 2894.8

Jacksonville 2913.3

St. Louis 2922.5

Bridge 31.7

St. Louis 2932.0

St. Louis 37.3

Kearneyville 2941.6

Ferry - W. 2942.0

#8 2942.4

Bridge 2945.1

St. Louis 52.9

St. Louis 2962.3

St. Louis 65.9

St. Louis 2970.6

St. Louis 75.7

St. Louis 76.7

Washington Park 2979.2

Jacksonville 87.2

Virginia 302.4

#3467 #3 2.6

Bluff Spring 10.5

Beardstown 18.5

Frederick 16.1

Pleasant View 19.9

Rushville 23.0

Rushville 28.9

#101 37.3

Littleton 38.7

Brooklyn 46.5

Augusta 56.5

Bowen 62.5

#36 66.6

Bentley 77.6

Carthage #9 77.6

Elvaston 84.8

Hamilton 89.2

St. Louis 90.6

St. Louis 91.5

St. Louis 91.8

St. Louis 92.

Other cuts in Altam showed
scant fragments of shells.

N. of Altam the country is
rough & #3 runs well along top.

At 2909.8 in a smaller
cut very little shows appear.
Gravelly stuff (yellow) below
Acorn from Jerseyville to Fulton
we are out on the plain, but
then, rougher, wooded, & we
drop down at 2926 to a broad
valley with woods bluff in the distance.

Acorn seen on bluff (rounded)
off turn of road to Hardin.
Other can be seen farther up (N.) all
facing SW.

Valley is broad - bluff abrupt &
mostly wooded on both sides.

The bluffs on W. side of the Illinois
have abrupt rocky headlands.

The country back is rough &
timbered (partly cleared). The highest
cliffs are capped with Juncus
virginicus & communis?

At 2940 we stop on
the timber N. of Michael, Ill
(along Illinois Riv.). Clusters

of Juncus

It is - small fl.

in common

Acorn

by roadside

Acorn, etc.

We corner the ^{Illinois} river at Kampsville
the ferry.

2 long cut at 2945.4 str.

lower part (near base of hill)

shows chiefly Juncus. Just

at 2945.4 it was much

more Juncus & had
a few nodules.

Took sample, nodules & shells,
a sandy loam was there
probably 5-6 in thick

Fossils mostly abundant
cut run from 6 to 15 ft or
more & my shells came
from about 5-6 ft. above
road.

At 2945.6 $\frac{1}{2}$ is top of hill
& cut. (The reading at 45.4
was a little above W. end of
cut.)

Upward the cut is 18 ft. or
more deep, but there are
no fossils - they gradually
fade out as we go up hill
eastward.

The shells which I collected
are mostly in fine sand.

were not broken, but
appeared in "nests"

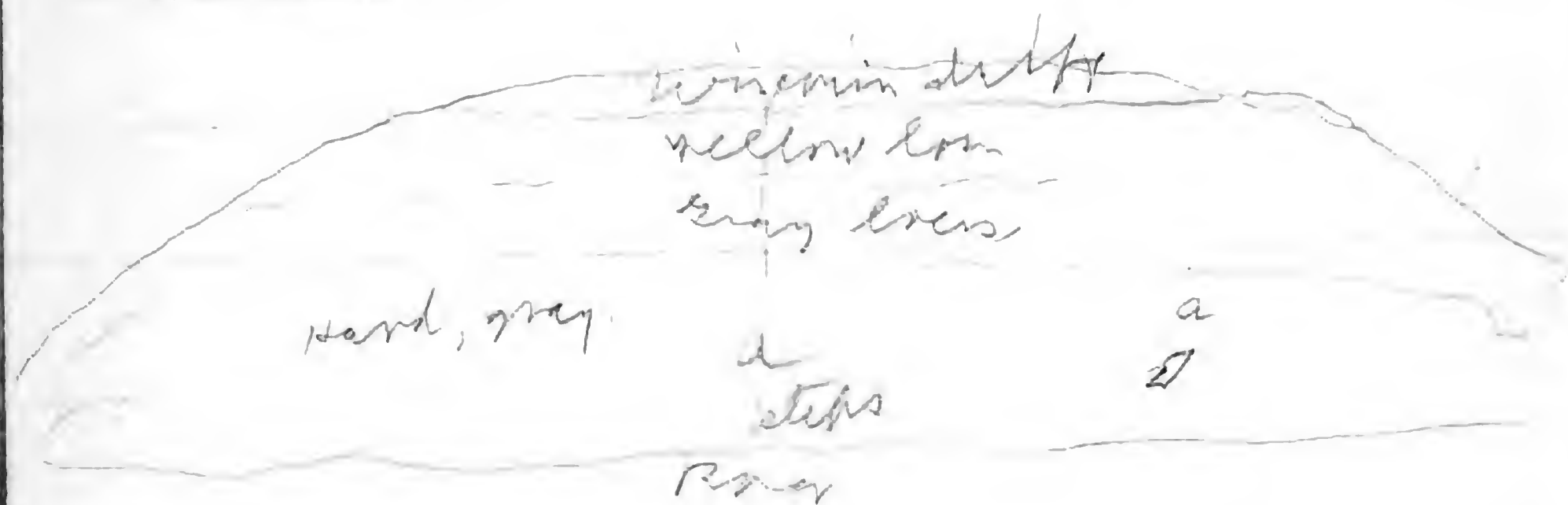
Coriodiscus perfectum was
fairly abundant & it has
a "nesting" habit today.

We drove to Carrollton and then

Keokuk	3093
#161st	3101.7
Donnellson #3	12.8 $\frac{1}{2}$
Skunk River	30 30.6
W. Chasant	35.2
Olds - RR	47.1
No. 2. —	58.1
RR. #22	71.7
Home	84.9

Oct. 1933

Cut N. of Shuck River, N. of
Mitchellville.
E. side.

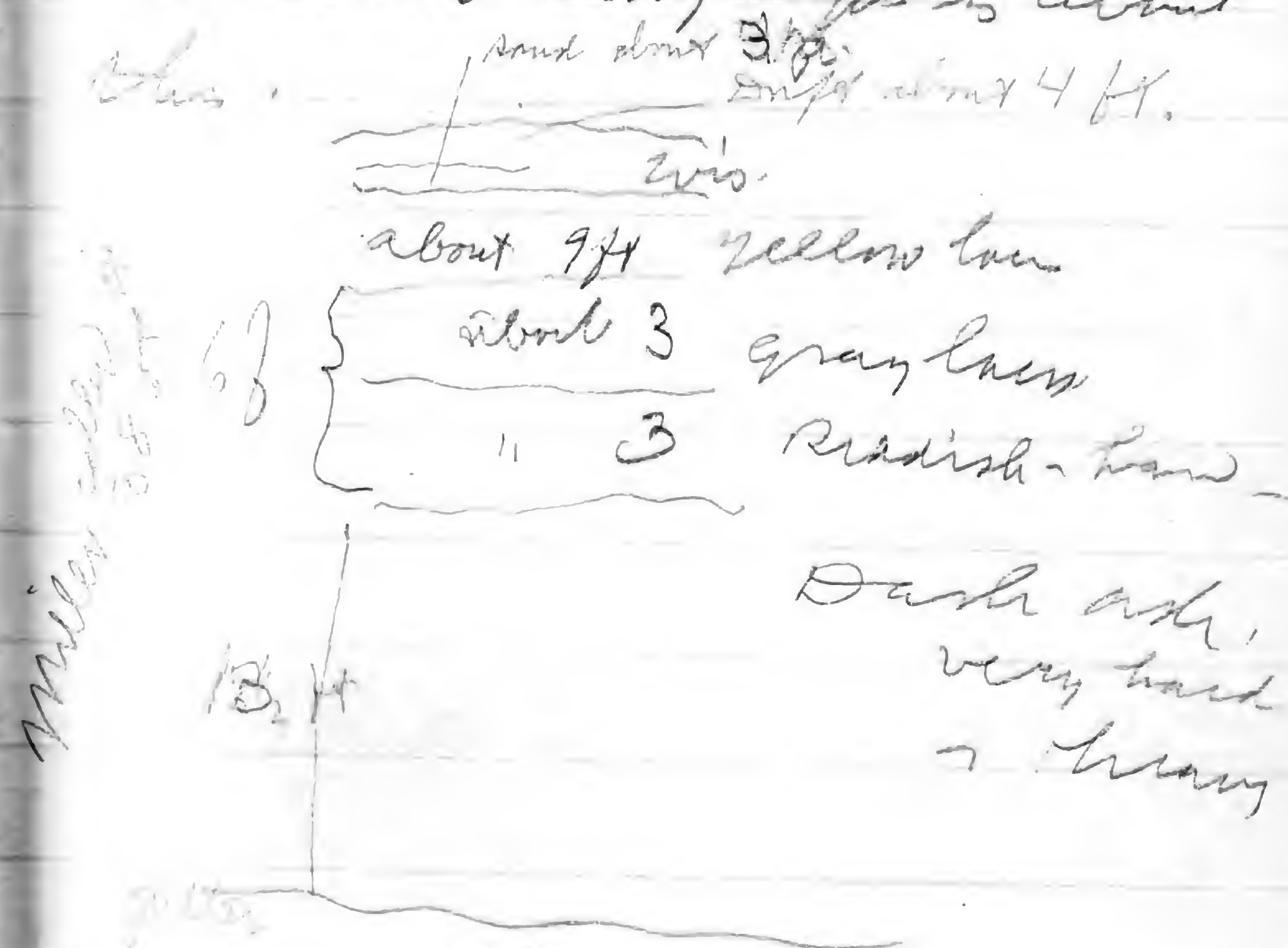


at a, about 3 ft. above gutter was
a good sized log (see fragments
part 5 in in drain)
other " larger
good many shells scattered through
the layer (a)

Shells of *Succinea* aware, (one layer)
Succinea & *Polygona* multistriata
(small form) & *Pyramidula*
Strophomena occurs, ^{scattered} through but
also few *Vestigia*.

my notes on the 9 ft. from base
are 10 ft. from base

I took a sample of the hard
stuff at about 3 1/2 ft. above
gutter, near the big log
The section along steps is about
this:



The 'yellow loam' has pockets of gray
loam & also of sand in upper part &
is separated from the sand by a
somewhat oxidized layer - irregular
There is some sand between yellow
& gray loam, but both are more or
less streaked & irregular, - the

yellow with gray & the gray
with yellow. Possibly all
this has been somewhat
shifted.

5 ft. below yellow was took
sample of reddish or yellow hard
stuff. Even?

The two sides ^{of road} are ^{of sand} recent
& evidently there has
been much disturbance.

Dark, brown
with brown

Dirt

Block iron in irregular
waves plates - looks very
much as if the part had
been pushed south

Road of
me.

St. Louis

Mrs Bell, Dr. Morris Sec.

Miss Laddwick, Dr. Greenman's Sec.

(was

32 - Le. Q. Dunn - Cedar Rapids

Feb. 25

34 - Kringle - Sec. Albert Co.
and

Southern Trip

Expenses. (Con.)

Brought over, - Gas, etc. 20.13 Remainder \$18.29

Oct. 4 - Natchez - Breakfast, soda 5	.41
chase-cloth 10, dinner 60	.70
William gas.	.15
Room - Baton Rouge 1.00	.20
Room - Baton Rouge 1.00	1.50
Oct. 5 - Breakfast 30	.35
New Orleans, Dinner 20, Supper 1.70	.98
Light evening 4.50 - Candy 25	2.50
Oct. 6 - Lunch Fork Room 3.75	4.85
Breakfast 80, Dinner 5	4.25
Gas, Christian, dinner	2.52
Gas, Christian, dinner	1.00
Gas, Christian, dinner	2.45
Gas, Christian, dinner	1.10
Gas, Christian, dinner	.30
Gas, Christian, dinner	1.75
Oct. 7 - Atmore, Ala. - Room & breakfast 10	2.27
Room & breakfast 10	.50
Room & breakfast 10	1.05
Room & breakfast 10	.70
Room & breakfast 10	1.83
Room & breakfast 10	2.00
Oct. 8 - " Room 1.50 breakfast 50	.50
dinner 40 soda 10	2.00
Gas Hope 2.00	2.20
Montgomery, supper 70, room 50	1.20
Oct. 9 - Breakfast 50 - dinner (Wetumpka) 70	2.00
Selma, gas 50	.60
Oct. 10 - Selma, supper room breakfast 50	1.72
Centerville, soda 10 dinner 30	2.00
Columbus, gas, oil	2.00
Oct. 11 - Columbus, supper 70, room, breakfast 60	50
Car - green	
Mr. Towan's Ferry, Dewberry 50	

Harpersville - pop.
Warrior - supper
Porter - Decatur

Oct. 12, Decatur - Lym Hotel, breakfast 65	.65
Room 3.00 dinner 1.10 car. storage 50 tip 25	4.85
Gas 2.25	2.25
Gas 30, boat 25 papers 10, paper 5	.70
Gas 30, boat 25 papers 10, paper 5	.45
Gas 30, boat 25 papers 10, paper 5	1.00
Oct. 13 - Room - breakfast 30 fruit 40	.75
Room - breakfast 30 fruit 40	1.20
Room - breakfast 30 fruit 40	1.68
Room - breakfast 30 fruit 40	.60
Room - breakfast 30 fruit 40	.30
Room - breakfast 30 fruit 40	.35
Room - breakfast 30 fruit 40	2.00
Room - breakfast 30 fruit 40	2.01
Room - breakfast 30 fruit 40	.50
Room - breakfast 30 fruit 40	.65
Room - breakfast 30 fruit 40	2.15
Room - breakfast 30 fruit 40	1.60
Oct. 15 - Breakfast 25	.95
Room - Breakfast 25	1.75
Room - Breakfast 25	1.00
Room - Breakfast 25	1.50
Room - Breakfast 25	.70
Room - Breakfast 25	2.59
Room - Breakfast 25	1.80
Room - Breakfast 25	.75
Oct. 17 - Breakfast 60, dinner 30, supper 1.00	1.90
Room - Breakfast 60, dinner 30, supper 1.00	37.73

Oct. 18, Breakfast, ⁶⁰ dinner ⁶⁰ supper ^{1.00}	\$ 2.20
Gas, 1.30 Garage ^{1.00}	2.30
Wed. -	
Oct. 19 - Breakfast ⁶⁰ dinner ⁶⁰ supper ⁶⁵ tip (cash) ^{1.00}	1.95
Oct. 20 - Breakfast ⁶⁰ dinner ⁶⁰ supper ^{1.00}	2.20
Room for 5 days.	7.50
Oct. 21 - Breakfast ⁶⁰ garage ^{1.00}	2.10
Toll - Alton	.35
Ferry, Kampsville	.50
Gas, oil - Jacksonville	1.97
Supper ³⁰ black lights ^{2.3}	.58
Toll - Beardstown	.25
Toll - Kerkira	.25
Gas 1.59 - supper 70	1.79
Fine	\$ 23.94
	18.29
	47.89
	37.73
	<u>\$ 127.85</u>

Landerhills at Rio, Ky Hart Co.
 Nautilus vol. XLIV, pp. 16-17 (+ Edmonson Co.)
 A. F. Archer.

Polygyra levata (rare)

" *thyroides* (not abundant)

" *albolabris* (" ")

" *zalcata* (very ")

" *appra* (" ")

" *tridentata* (" ")

" *stenotrema* (" ")

" *inflecta* (rather com.)

" *plicata* (very abundant on top of Knox Knob.)

" *hirsuta* (Gr. Onyx cave)

Anguispira alternata carinata - Scarce.

Somogydisca perspectum Very scarce.

Haplotrema concavum - not com.

Mesomphix laevigata - com.

Omphalina cuprea - not com.

" *fragilis* Gr. Onyx cave, Edmonson Co.

Gastrocopta contracta Scarce.

Glyphyalinia indentata - Rather com.

Paravitrea capella Plentiful

Retinella radiatula, not com.

Paravitrea andrewsae - " "

Ventridens lepra - not plentiful

Succinea anara Scarce.

Margie - 20.74⁺¹⁰

22.67⁻¹⁰

Orlando 6.44⁻¹⁰
 Orshalon 4.52⁻¹⁰

33.61³⁰

33.31

60
 93.10

Walter Campbell
Van Buren
Mo.

Adolph Carrigan
Iron River, Wis

Mrs. L. W. Hanks
Clairborne, Ala.

Cornelius Dewberry,
Wilsonville, Ala
Will get lambs,
McCowan's Ferry.

J. L. Newson
Decatur, Ala.
Lambs.

Mrs. Ferguson. 417 E. Emory St.
Florence, Ala.

G. G. Childress, 4242 Shawandah A.

Mrs. Helen Taylor 4244

